

DEPARTMENT OF BIOLOGY  
FACULTY OF SCIENCES  
UNIVERSITY OF CALIFORNIA

193

*Flora Americæ Septentrionalis*;  
OR, A  
SYSTEMATIC ARRANGEMENT  
AND  
DESCRIPTION  
OF  
**THE PLANTS**  
OF  
**NORTH AMERICA.**

CONTAINING, BESIDES WHAT HAVE BEEN DESCRIBED BY  
PRECEDING AUTHORS, MANY NEW AND RARE  
SPECIES, COLLECTED DURING TWELVE  
YEARS TRAVELS AND RESIDENCE  
IN THAT COUNTRY,

BY  
**FREDERICK PURSH.**

---

IN TWO VOLUMES.

WITH TWENTY-FOUR ENGRAVINGS.

---

VOL. II.

---



LONDON:

PRINTED FOR WHITE, COCHRANE, AND CO.,  
FLEET STREET.

1814.

Bibliothèque,  
Le Séminaire de Québec  
3, rue de l'Université,  
Québec 4, QUE.

FROM AMERICAN PUBLICATIONS  
OR, A  
SYSTEMATIC ARRANGEMENT  
AND  
DESCRIPTION  
OF  
THE PLANTS  
OF  
NORTH AMERICA

CONTAINING, BRIEFLY, WHAT ARE THE  
TEACHINGS OF THE BIBLE AND THE  
PRINTED BY RICHARD AND ARTHUR TAYLOR,  
SHOE-LANE, LONDON.

BY  
FREDERICK PURSH

IN TWO VOLUMES.

VOL. II.



## XII. POLYANDRIA.

### I. MONOGYNIA.

423. BEJARIA. *Cal.* 7-fidus. *Pet.* 7. *Stam.* 14. *Caps.* 7-locularis, polysperma.
424. TILIA. *Cal.* 5-partitus, deciduus. *Pet.* 5. *Stigma* sub-5-lobum. *Caps.* immatura 5-locularis, 5-valvis, 5-sperma: matura submonosperma, basi dehiscens.
425. HELIANTHEMUM. *Cal.* laciniis 5. sæpius inæqualitibus: 2. extimis minoribus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis; valvis medio septiferis.
426. HUDSONIA. *Cal.* 3-partitus, tubulosus. *Pet.* 5. *Stam.* 10-15. *Caps.* 1-locularis, 3-valvis, 3-sperma.
427. TALINUM. *Cal.* 5-phyllus. *Pet.* 5. *Caps.* 1-locularis, 3-valvis, polysperma.
428. PORTULACCA. *Cal.* 2-fidus. *Pet.* 5. *Caps.* 1-locularis, circumscissa.
429. CHELIDONIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, linearis. *Sem.* plurima, cristata.
430. GLAUCIUM. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Siliqua* 2-locularis, linearis. *Sem.* plurima, punctata.
431. PAPAVER. *Cal.* 2-phyllus, deciduus. *Pet.* 4. *Caps.* 1-locularis, sub stigmate persistente poris dehiscens.
432. SANGUINARIA. *Cal.* 2-phyllus. *Pet.* 8. *Caps.* ovata, 1-locularis.
433. ARGEMONE. *Cal.* 3-phyllus, deciduus. *Pet.* 6. *Caps.* semivalvis.
434. PODOPHYLLUM. *Cal.* 3-phyllus, *Pet.* 9. *Bacca* 1-locularis, coronata stigmate.
435. ACTÆA. *Cal.* 4-phyllus, deciduus. *Pet.* 4. *Bacca* 1-locularis. *Sem.* semiorbiculata.
436. SARRACENIA. *Cal.* duplex, 3-phyllus et 5-phyllus. *Pet.* 5. *Caps.* 5-locularis. *Stylus* stigmate clypeatus.

437. LEWISIA. *Cal.* 7—9-phyllus, scariosus. *Pet.* 14—18. *Stylus* 3-fidus. *Caps.* 3-locularis, polysperma. *Semina* nitida.
438. NYMPHÆA. *Cal.* 4—5-phyllus. *Pet.* plurima, germi sub staminibus inserta. *Stigma* radiatum, sessile, medio nectariferum. *Bacca* multilocularis, polysperma.
439. NUPHAR. *Cal.* 5—6-phyllus. *Pet.* plurima, receptaculo cum staminibus inserta, dorso nectarifera. *Stigma* radiato-sulcatum, sessile. *Bacca* multilocularis, polysperma.
440. CERATOPHYLLUM. *Cal.* multipartitus : femineus 6-phyllus, imbricatus. *Cor.* O. *Anth.* tricuspidatæ. *Nux* 1-sperma. *Monoicum*.

## II. DI-PENTAGYNIA.

441. CALLIGONUM. *Cal.* 5-partitus. *Cor.* O. *Styli* 4. *Nux* 1-locularis, 4-alata. *Dioicum*.
442. DATISCA. *Cal.* 5-phyllus : femineus 2-dentatus. *Cor.* O. *Anth.* sessiles, oblongæ, 15. *Styli* 3. *Caps.* 3-angularis, 3-cornis, 1-locularis. *Dioica*.
443. MENISPERMUM. *Cal.* O. *Pet.* 4. exteriora ; 8. interiora. *Stam.* 6. 8. 12. 16. *Pist.* 2—3. *Baccæ* 1—2, monospermæ. *Dioicum*.
444. DELPHINIUM. *Cal.* O. *Pet.* 5. *Nectar.* 2-fidum, postice cornutum. *Caps.* 1—3. seu 5.
445. ACONITUM. *Cal.* O. *Pet.* 5. supremo fornicato. *Nectar.* 2. pedunculata, recurva. *Caps.* 3. seu 5.
446. AQUILEGIA. *Cal.* O. *Pet.* 5. *Nectar.* corniculata, inter petala. *Caps.* 5. distinctæ.
447. CIMICIFUGA. *Cal.* 4—5-phyllus. *Pet.* 4—8. cartilaginea. *Caps.* 1—5. seu plures, oblongæ, sutura laterali dehiscentes, polyspermæ.
448. ASCYRUM. *Cal.* 4-phyllus : 2. interioribus majoribus. *Pet.* 4. *Filam.* in 4. phalanges digesta. *Caps.* oblonga, 1-locularis, 2-valvis, calyce inclusa.
449. HYPERICUM. *Cal.* 5-partitus, laciniis subæqualibus. *Pet.* 5. *Filam.* vix basi connata. *Caps.* subrotunda : loculis numero stylorum : 1—2—3—5.
450. ELODEA. *Cal.* 5-partitus, æqualis. *Pet.* 5. unguibus nectariferis. *Filam.* 10—15. in 3. phalanges connata. *Glandulæ* inter phalanges. *Styli* 3. divergentes. *Caps.* 3-locularis.

## III. POLYGYNIA.

\* *Flores vagi.*

451. *ILICium*. *Cal.* 6-phyllus. *Pet.* 27. *Caps.* plures, in orbem digestæ, 2-valves, 1-spermæ.
452. *MAGNOLIA*. *Cal.* 3-phyllus. *Pet.* 6—9. *Caps.* 2-valves, 1-spermæ, in strobilum imbricatæ. *Sem.* pendula.
453. *LIRIODENDRON*. *Cal.* 3-phyllus. *Pet.* 6. *Samaræ* imbricatæ in strobilum. *Caps.* 1—2-spermæ, non dehiscentes.
454. *PORCELIA*. *Cal.* 3-phyllus. *Pet.* 6. interiora majora. *Stigmata* sessilia, obtusa. *Baccæ* plures aut abortione subsolitariae, ovoideo-subreniformes, polyspermæ. *Sem.* sutura interna adnexa, arillata.
455. *ATRAGENE*. *Cal.* 0. *Cor.* 4—6-petala. *Nectaria* 4. spathulata, petalis alternantia. *Filam.* exteriora dilatata subantherifera. *Sem.* aristata, aristis pilosis.
456. *CLEMATIS*. *Cal.* 0. *Pet.* 4—6. *Sem.* caudata, cauda pluntosa.
457. *ANEMONE*. *Cal.* 0. *Pet.* 6—9. *Sem.* ecaudata.
458. *THALICTRUM*. *Cal.* 0. *Pet.* 4—5. *Stam.* longissima. *Sem.* ecaudata, striata, teretia.
459. *HYDRASTIS*. *Cal.* 0. *Pet.* 3. *Bacca* composita, acinis monospermis.
460. *BRASENIA*. *Cal.* 0. *Pet.* 6. persistentia: 3. interiora longiora. *Caps.* 6—10. oblongæ, dispermae.
461. *CALTHA*. *Cal.* 0. *Pet.* 5. decidua. *Caps.* plurimæ, polyspermæ.
462. *COPTIS*. *Cal.* 0. *Pet.* 5—6. caduca. *Nectar.* 5—6. cucullata. *Caps.* 5—8. stipitatae, stellatae, rostratae, polyspermæ.
463. *TROLLIUS*. *Cal.* 0. *Pet.* 5—8. decidua. *Nectar.* 5—8. linearia. *Caps.* plurimæ, sessiles, polyspermæ.
464. *HEPATICÀ*. *Cal.* 3-phyllus. *Pet.* 6—9. *Sem.* nuda.
465. *RANUNCULUS*. *Cal.* 5-phyllus. *Pet.* 5. intra ungues poro mellifero. *Sem.* nuda.
466. *SAGITTARIA*. *Cal.* 3-phyllus. *Pet.* 3. *Caps.* aggregatae, 1-spermæ. *Polygama.*
467. *CYAMUS*. *Cal.* 4—5-phyllus. *Pet.* plurima. *Fructus* turbinatus, in disco truncato foveis plurimis excavatus 1-spermis. *Nuces* ovatae, stylo persistente coronatae.

\*\* Flores spathacei. Spadix simplex.

468. POTHOS. *Spatha cucullata. Spadix floribus tectus.*  
*Cal. O. Pet. 4. Baccæ 2-spermæ.*
469. CALLA. *Spatha planiuscula. Spadix floribus tectus.*  
*Cal. et Cor. O. Baccæ polyspermæ.*
470. ARUM. *Spatha cucullata. Spadix supra nudus,*  
*inferne femineus, medio stamineus. Cal. et Cor. O.*  
*Baccæ ut plurimum 1-spermæ.*

## I. MONOGYNIA.

423. BEJARIA. *Gen. pl. 811. Vent. hort. cels p. 51.*

*racemosa.*

1. B. foliis ovato-lanceolatis glabris, floribus racemoso-paniculatis terminalibus.—*Vent. l. c.*

*Befaria paniculata. Mich. fl. amer. 1. p. 280.*

*Icon. Mich. l. c. t. 26. Vent. l. c. t. 51.*

- α. B. foliis utrinque acutis, caule hispido.*

- β. B. foliis obovatis obtusiusculis, caule glabro.*

In sandy woods, on the banks of swamps and ponds : Georgia and Florida : particularly plentiful on the Island of St. Mary's. *h. June. v. v.* A beautiful shrub, from three to four feet high ; flowers white, tinged with red, of an agreeable scent.

424. TILIA. *Gen. pl. 894.*

*glabra.*

1. T. foliis suborbiculato-cordatis abrupte acuminatis argute serratis subcoriaceis glabris, petalis apice truncatis crenatis, stylo petalis subæquali, nuce ovata subcostata.—*Vent. in mem. de l'instit. sc. phys. 4. p. 9. t. 2.*

*T. americana. Willd. sp. pl. 2. p. 1162.*

*T. caroliniana. Wagh. amer. 56.*

*T. canadensis. Mich. fl. amer. i. p. 306.*

*Icon. Vent. l. c. t. 2. Mich. arb. t. ....*

In the woods of Canada and the northern United States, and on the mountains, as far south as Carolina. *h. May, June. v. v.* This tree is known by the name of *Lime- or Line-tree ; Basswood ; Spoonwood ;* and is both useful and ornamental.

2. *T. foliis cordatis sensim acuminatis rariter dentatis membranaceis glabris, paniculis laxifloris, petalis emarginatis, stylo petalis longiore, nuce globosa.*—*Mich. fl. amer.* 1. p. 306.

*laxiflora.*Icon. *Mitch. arb.* t. . . .

Near the sea-coast: Maryland to Georgia.  $\frac{1}{2}$ . May, June. *v. v. s. fl.* A very distinct species, though generally confounded with the foregoing one.

3. *T. foliis basi truncatis obliquis acuminatis denticulato-serratis subtus pubescentibus, paniculis confertifloris, petalis emarginatis, stylo petalis subæquali, nuce globosa lævi.*—*Vent. in mem. de l'instit. sc. phys.* 4. p. 10. t. 3. *Willd. sp. pl.* 2. p. 1162.

*pubescens.**T. caroliniana. Mill. dict. no. 4.**T. americana. Walt. fl. car. 153. Wagh. amer. 55.*

- $\beta$ . *T. foliis laxe serratis tenuissimis subpapyraceis.* *Vent. l. c. p. 11.*

*leptophylla.*

In close copses and on the banks of rivers: Virginia to Georgia.  $\frac{1}{2}$ . May—July. *v. v.* The variety  $\beta$ . can scarcely be considered a distinct species, unless the flowers and fruit should prove it so, both of which I have not seen.

4. *T. foliis ovatis basi oblique aut æqualiter truncatis cordatisque argute serratis subtus niveo-tomentosis, nuce globosa subcostata.* *Vent. l. c. p. 16. t. 5.*

*heterophylla.*

On the banks of the Ohio and Mississippi.  $\frac{1}{2}$ . June. *v. s.* A very handsome and desirable ornamental tree.

425. *HELIANTHEMUM. Juss. gen. pl.* 326.*Cisti spec. Gen. pl.* 913.

1. *H. exstipulatum, erectum; foliis alternis erectis lineari-lanceolatis planis subtus tomentosis, racemis terminalibus paucifloris, calycis laciniis lato-ovatis acuminatis, capsulis calyce brevioribus.*—*Willd. sp. pl.* 2. p. 1199. *sub Cisto.*

*canadense.*

In dry fields and pine woods: Canada to Carolina.  $\frac{1}{2}$ . June. *v. v.* Flowers, as in all the following species, yellow.

2. *H. exstipulatum, erectum, pulverulento-tomentosum; ramuliflorum. foliis alternis oblongis acutis margine revolutis subtus tomentosis, racemis brevissimis, summitate subtrifloris, calycis laciniis orbiculatis pulverulentis, capsulis globosis longitudine calycis.*—*Mich. fl. amer.* 1. p. 307.

*Menandra ramis alternis. Clayt. fl. virg. 20.*

In sandy fields: New Jersey to Carolina. *fl.* July.  
*v. v.* Flowers small.

- corymbosum.* 3. *H. exstipulatum*, erectum, ramosum, minutim pubescens; foliis alternis lanceolatis subtus cano-tomentosis, corymbis fastigiatis confertim multifloris, calycis laciniis ovatis acutis, capsulis calyce vix longioribus.—*Mich. fl. amer. 1. p. 307.*

In dry barren sand-fields, particularly along the seacoast: New Jersey to Georgia. *fl.* June—Aug.  
*v. v.* Flowers very small, sometimes without petals; from which circumstance this and the foregoing species have been mistaken for *Lechea major*.

- rosmarinifolium.* 4. *H. exstipulatum*, stricte-erectum, simplex, canescens; foliis linearibus margine revolutis subtus cano-tomentosis, racemulis axillaribus interrupte confertifloris, calycis laciniis ovatis acutis, petalis calyce triplo longioribus.

In pine-barrens: Georgia. *Enslen. fl. July. v. s. in Herb. Enslen.* Flowers bright yellow.

- carolinianum.* 5. *H. exstipulatum*, hirsutum, erectum; foliis alternis oblongo-ovalibus subdenticulatis, imis obovalibus utrinque hirsutis, pedunculis terminalibus paucis calycibusque villosissimis, calycis laciniis oblongis acutis petalis brevioribus.—*Mich. fl. amer. 1. p. 307.*

*Cistus carolinianus. Walt. fl. car. 152.*

*Icon. Vent. cels 74.*

In pine-barrens of Carolina and Georgia. *fl.* June—Aug. *v. v.* Flowers and leaves larger than in any other species.

426. HUDSONIA. *Gen. pl. 822. Willd. hort. berol. 15.*

*ericoides.*

1. *Hudsonia. Willd. sp. pl. 2. p. 858.*

*Icon. Willd. hort. berol. 15. Berg. act. holm. 1778. t. 2.*

In pine-barrens of New Jersey and Virginia. *fl.* May, June. *v. v.* Flowers yellow. This delicate little shrub, not above six inches high, covers large tracts of sandy pine-woods in a similar manner as common heath.

427. TALINUM. *Juss. gen. pl.* 346.

1. *T. foliis cylindricis carnosis, corymbis terminalibus pedunculatis. teretifolium.*  
On sunny rocks: Delaware and Virginia. ♀. July.  
v. v. Flowers purple.

428. PORTULACCA. *Gen. pl.* 824.

1. *P. foliis cuneiformibus, floribus sessilibus. Willd. sp. pl. 2. p. 859. oleracea.*  
Icon. *Schkuhr handb.* 130.  
*Purslane* is a common weed in gardens.

429. CHELIDONIUM. *Gen. pl.* 860.

1. *C. foliis alternis pinnatis lobatis, umbellis axillaribus pedunculatis. Willd. sp. pl. 2. p. 1141. majus.*  
Icon. *Fl. dan.* 542. *Engl. bot.* 1581.  
Near old buildings and among rocks: New England and Pennsylvania; probably introduced. ♀. May, June. v. v. The yellow fluid which it affords by breaking the stems, is considered an infallible remedy in curing warts and corns.
2. *C. caulibus in summitate geminatim diphyllis, foliis sessilibus lobato-pinnatifidis, pedunculo solitario unifloro, capsula oblongo-ovata. Mich. fl. amer. 1. p. 309. diphyllum.*  
In shady woods, near rivulets: Kentucky and Tennessee. *Michaux.* ♀. May. v. s. Resembles *Sanguinaria* very much, and seems to be the connecting link to both genera.

430. GLAUCIUM. *Juss. gen. pl.* 261.

1. *G. caule glabro, foliis caulinis amplexicaulibus repandis, pedunculis unifloris, siliqua tuberculato-scabriuscula. luteum.*  
*Smith fl. brit.* 2. p. 563.  
*Chelidonium Glaucium. Willd. sp. pl. 2. p. 1142.*  
Icon. *Fl. dan.* 583. *Engl. bot.* 8.  
On the sea-coast of Virginia and Carolina. ☉. June, July. v. v. Flowers large, yellow.

431. PAPAVER. *Gen. pl.* 881.

1. *P. capsulis hispidis, scapo unifloro nudo hispido, foliis subpinnatis, foliolis lanceolatis; inferioribus subincisis. nudicaule.*  
—*Willd. sp. pl. 2. p. 1145.*

Icon. *Fl. dan.* 41. *Dill. elth. t.* 224. *f.* 291.

In Labrador. *Colmaster. ♂. v. s. in Herb. Dickson.*  
Flowers yellow.

• 432. SANGUINARIA. *Gen. pl.* 878.

*canadensis.* 1. *S. folio subreniformi sinuato-lobato, scapo unifloro.*—*Willd. sp. pl. 2. p.* 1140.

Icon. *Bot. mag.* 162. *Dill. elth. t.* 252.

*stenopetala.* β. *S. petalis linearibus.*

In dry woods, generally in fertile soil: Canada to Florida. *℥.* March, April. *v. v.* Flowers white; the number of petals is variable; and with little care and attention a fine double variety might be produced. It is known by the name of *Blood-wort*.

433. ARGEMONE. *Gen. pl.* 882.

*mexicana.* 1. *A. capsulis 5-valvibus, foliis pinnatifidis incisis spinosis, floribus axillaribus.*—*Willd. sp. pl. 2. p.* 1148.

Icon. *Bot. mag.* 243.

On banks of rivers: Carolina to Florida. *⊙.* July, Aug. *v. v.* Flowers yellow, large. In Georgia is a variety with white flowers, which has a beautiful appearance.

434. PODOPHYLLUM. *Gen. pl.* 879.

*peltatum.* 1. *P. caule unifolio unifloro, folio peltato palmato: lobis cuneatis incisis.*—*Willd. sp. pl. 2. p.* 1141.

Icon. *Trew ehret. t.* 29. *Catesb. car. 1. t.* 24.

In shady woods, in large patches, generally on moist ground: New England to Carolina. *℥.* March, April. *v. v.* Flower white; the fruit is the size of a common plum, green, eatable, and known by the name of *May-apple*: the root is sometimes used as *Ipecacuanha*.

435. ACTÆA. *Gen. pl.* 877.

*americana.* 1. *A. foliis decompositis: foliolis oblongis sensim acutis inciso-serratis, racemo ovato, petalis staminibus brevioribus.*

*A. spicata. Mich. fl. amer. 1. p.* 308.

*A. rubra. Willd. enum.* 560.

*alba.* α. *A. baccis niveis.*

Icon. *Corn. canad. t.* 77. *Moris, hist. 2. s. 1. t. 2. f.* 7.

*β. A. baccis rubris.*

rubra.

In shady rocky woods, in rich vegetable mould: Canada to Virginia; principally on the mountains. *℥*. April, May. *v. v.* Flowers white; berries white or red; known by the name of *Red* and *White Cohosh*, and considered by the natives as a valuable medicine. *A. spicata* differs not only in its foliage, but the petals are the length of the stamina.

436. SARRACENIA. *Gen. pl.* 885.

1. *S. foliis brevibus, tubo ventricosogibbo, fauce coarctato, ala ventrali arcuatim elatiore, appendice erecta subreniformi-cordata mutica sessili.* *Mich. fl. amer.* 1. p. 310. *Willd. sp. pl.* 2. p. 1150.

purpurea.

*Icon. Bot. mag.* 849. *Mill. ic.* 241. *Catesb. car.* 2. t. 70. *Pluk. amalth. t.* 376. f. 6.

In cedar swamps and sphagnous marshes: Canada to Carolina. *℥*. June, July. *v. v.* Flowers purple, large. This singular and handsome plant is, with all the following, a very desirable object in the collection of the admirers of nature; they bear cultivation, in pots filled half way with sphagnum, extremely well.

2. *S. foliis elongatis, tubo superne dorso maculato, in appendicem fornicatim incurvatam brevem desinente, ala ventrali lineari-lanceolata.* *Mich. fl. amer.* 1. p. 310.

variolaris.

*S. minor.* *Walt. fl. car.* 153.

*S. adunca.* *Smith exot. bot.* 1. t. 53.

In open swamps, on sandy soil: North Carolina to Florida. *℥*. June, July. *v. v.* Flowers yellow. The transparent spots on the back of the leaf distinguish this species very easily from the following, with which it has often been confounded.

3. *S. foliis strictis longissime infundibuliformibus, fauce patula, ala ventrali subnulla, appendice erecta basi coarctata ima parte lateribus retroflexis, mucrone subulato.* *Mich. fl. amer.* 1. p. 310. *Willd. sp. pl.* 2. p. 1150.

flava.

*Icon. Bot. mag.* 780. *Bot. rep.* 381. *Catesb. car.* 2. t. 69. *Pluk. amalth. t.* 376. f. 5.

In open swamps: Virginia to Florida. *℥*. June, July. *v. v.* Flowers yellow. This is the tallest growing sort; the leaves are often two feet long.



*psittacina*.

4. *S. foliis brevibus superne coloratis venoso-reticulatis, ala ventrali subcuneatim lateacente, tubo sensim in appendice recurvatam rotundatim fornicatam mucronatam desinente.* *Mich. fl. amer.* 1. p. 311.

*S. rubra.* *Wall. fl. car.* 152.

Icon. *Pluk. amalth.* t. 152. f. 3?

In swamps of Georgia and Florida.  $\mathcal{A}$ . June, July.  
v. v. Flowers on very long peduncles, purple; leaves small, very handsomely marked with purple veins.

437. *LEWISIA.* *Pursh in linn. trans.* v. 11.*rediviva*.

1. *Lewisia.* l. c.

On the banks of Clarck's river.  $\mathcal{A}$ . July. v. s. in *Herb. Lewis.* Petals white; calyx elegantly red-veined, of a consistency like paper.

*Radix* fusiformis, ramosa, sanguinea. *Folia* radicalia linearia, subcarnosa, obfusiuscula. *Scapus* uniflorus? an biflorus. *Pedicellus* basi geniculatus. *Calyx* coloratus, scariosus, 7—9-phyllus, patens: foliolis ovatis, acutis, concavis, nervoso-venosis, interioribus angustioribus. *Petala* 14—18. alba, lanceolata, patentia, calyce vix duplo longiora. *Filamenta* 14—18. receptaculo petalis opposita inserta, filiformia, calyce breviora. *Antheræ* oblongæ, erectæ. *Germen* superum, ovatum, glabrum. *Stylus* filiformis, staminibus paulo longior, superne trifidus. *Stigmata* 3. bifida. *Capsula* oblonga, 3-locularis: loculis bispermis. *Semina* lenticularia, nitida, nigra.

This elegant plant would be a very desirable addition to the ornamental perennials, since, if once introduced, it would be easily kept and propagated, as the following circumstance will clearly prove. The specimen with roots taken out of the Herbarium of M. Lewis, Esq. was planted by Mr. M'Mahon of Philadelphia, and vegetated for more than one year: but some accident happening to it, I had not the pleasure of seeing it in flower.

438. *NYMPHÆA.* *Gen. pl.* 886.

*Castalia.* *Salisb. in annals of bot.* 2. p. 71.

*odorata*.

1. *N. foliis orbiculato-cordatis integerrimis subemarginatis, lobis divaricatis, acumine obtuso, petalis calyce 4-*

4-phylo æqualibus, stigmate radiis 16—20. erectis.—  
*Willd. sp. pl.* 2. p. 1153.

*N. alba. Mich. fl. amer.* 1. p. 311. *Walt. fl. car.* 155.

*Castalia pudica. Salisb. l. c.* p. 72.

Icon. *Bot. mag.* 819. *Bot. rep.* 297.

β. *N. foliis cordatis integerrimis obtusis, lobis divaricatis acutis, petiolis pedunculis foliisque subtus purpureis, calycibus petalisque extus roseis.*

Icon. *Willd. hort. berol.* 39?

In ponds and slow-flowing waters: Canada to Carolina.

γ. July. v. v. Flowers white, fragrant. The variety β. is probably a distinct species, which only further observation can decide. It resembles *N. pygmæa*.

439. NUPHAR. *Smith prodr. fl. græc.* 1. p. 361.

*Nymphæa. Gen. pl.* 886. *Salisb. in annals of bot.* 2. p. 71.

1. *N. foliis cordatis integerrimis, lobis approximatis, calyce 5-phylo, stigmate repando 14—20-radiato profunde umbilicato.—Ait. kew. ed. 2. v. 3. p. 295.*

*Nymphæa lutea. Willd. sp. pl.* 2. p. 1151.

*Nymphæa umbilicalis. Salisb. l. c.*

Icon. *Engl. bot.* 159.

In lakes on the Allegany mountains. γ. June, July. v. v. Flowers yellow, as are all the following species.

2. *N. foliis erectis cordatis integerrimis, lobis divaricatis, calyce 6-phylo, stigmate leviter umbilicato 13-radiato, pericarpio sulcato.—Ait. kew. ed. 2. v. 3. p. 295.*

*Nymphæa advena. Willd. sp. pl.* 2. p. 1152.

*Nymphæa arifolia. Salisb. l. c.*

Icon. *Bot. mag.* 684. *Willd. hort. berol.* 38.

In all ponds and ditches, even in salt water: Canada to Carolina. γ. July, Aug. v. v. Resembles the foregoing species, but is distinguished at first sight by its upright leaves.

3. *N. foliis cordatis, lobis subapproximatis, calyce 5-phylo, stigmate inciso 8—12-radiato. Ait. kew. ed. 2. v. 2. p. 295.*

*Nymphæa lutea β. Kalmiana. Mich. fl. amer.* 1. p. 311.

*Nymphæa lutea. Walt. fl. car.* 154.

Icon. *Bot. mag.* 1243.

In ponds: Canada to Carolina; rare. γ. July, Aug. v. v. Flowers very small in comparison with others.

rosea.

lutea.

advena.

Kalmiana.

*sagittifolia.*

4. *N. foliis elongatis sagittato-cordatis obtusis, calyce 6-phylo, petalis nullis, antheris subsessilibus.*—*Salisb. l. c.*

*Nymphæa sagittifolia. Walt. fl. car. 155.*

*Nymphæa longifolia. Mich. fl. amer. 1. p. 312.*

In slow-flowing waters: Carolina and Georgia. ♀. July, Aug. *v. s.* Flowers small.

440. CERATOPHYLLUM. *Gen. pl. 493. Willd. act. ac. berol. 1798. p. 84.*

*demersum.*

1. *C. foliis verticillatis octonis dichotomo-bigeminis dorso dentatis spinulosis, floribus axillaribus solitariis sessilibus, fructibus 3-spinosis.*—*Willd. sp. pl. 4. p. 405.*

*Icon. Engl. bot. 947.*

In ditches and stagnant waters, floating: New York to Virginia. ♀. July, Aug. *v. v.* Flowers exceeding small.

## II. DI-PENTAGYNIA.

441. CALLIGONUM. *Gen. pl. 834.*

*canescens.*

1. *C. dioicum, pulverulento-tomentosum; foliis lanceolatis, floribus axillaribus glomeratis in apice ramulorum subspicatis, fructibus alatis, alis venosis cristato-dentatis.*

In the plains of the Missouri, near the Big-bend. ♀. July, Aug. *v. s. in Herb. Lewis.* Flowers exceeding small. Goats delight to feed upon this shrub.

442. DATISCA. *Gen. pl. 1543.*

*hirta.*

1. *D. caule hirsuto, foliis pinnatis, foliolis basi confluentibus.*—*Willd. sp. pl. 4. p. 823.*

In Pennsylvania. *Kalm. ♀. +.* Flowers yellow, small, in terminal panicles. I never had an opportunity of seeing this plant myself.

443. MENISPERMUM. *Gen. pl. 1544.*

*canadense.*

1. *M. foliis peltatis cordatis subrotundo-angularis, racemis compositis.*—*Willd. sp. pl. 4. p. 824.*

β. *M. foliis lobatis.*

*M. virginicum.* Willd. *sp. pl.* 4. p. 824. *excl. syn. Dill. elth.*

lobatum.

On the banks of rivers and sides of fertile hills, climbing among other shrubs. *h.* July. *v. v.* Flowers greenish yellow; berries black, resembling grapes. *M. folio hederaceo, Dill. elth. t.* 178. *f.* 219. belongs to *M. carolinianum* or *Wendlandia*.

2. *M. foliis cordatis palmato-lobatis longissime pedicellatis, racemis simplicibus, floribus hexapetalis dodecandris.*

*Lyoni.*

In Kentucky and Tennessee. *h.* June, July. *v. v. s. fl.*; *v. s. in Herb. Lyon.* Berries large, black, one-seeded. Stem climbing to the height of twenty feet; leaves large.

#### 444. DELPHINIUM. Gen. pl. 924.

1. *D. pumilum*; caule simplici, foliis palmato-multifidis, laciniis sublanceolatis obtusiusculis, fasciculo paucifloro, cornu recto corolla brevior, capsulis 3. compressis arcuatis subreflexo-patulis.—*Mich. fl. amer.* 1. p. 314.

*tricorn.*

On the side of shady and fertile hills, on the banks of rivers: Virginia to Carolina; particularly plentiful about Harper's Ferry on the Potowmac, Virginia. *h.* April, May. *v. v.* Not above eight inches high; flowers beautiful blue.

2. *D. caule stricto simplici, foliis lineari-multipartitis, spica floribus breviter pedicellatis, cornu sursum arcuato, petalis villosissimis, capsulis ternis.* *Mich. fl. amer.* 1. p. 314.

*azureum.*

*D. carolinianum.* *Walt. fl. car.* 155.

On the borders of woods, in sandy soil: Carolina and Georgia. On the banks of the Missouri and Mississippi. *h.* May, June. *v. s.* Flowers beautiful sky-blue, large. W. Bartram mentions this very handsome species in his Travels.

3. *D. caule glabro subramoso, foliis tripartito-palmatis, laciniis lanceolatis subtrifidis, spicis strictis, cornu recto longitudine corollæ, capsulis ternis.*—*Willd. sp. pl.* 2. p. 1230.

*exaltatum.*

*D. tridactylum.* *Mich. fl. amer.* 1. p. 314.

*D. urceolatum.* *Jacq. collect.* 1. p. 153.

Icon. *Mill. ic. t.* 250. *f.* 2. *Jacq. ic. rar.* 1. *t.* 101.

In rocky shady places, in the mountains of Virginia and Carolina.  $\mathcal{U}$ . July. *v. v.* From two to four feet high.

*Consolida*.

4. *D. pubescens*; caule erecto ramoso, foliis lineari-multipartitis, cornu adscendente corollam subaequante, nectario monophyllo, capsula solitaria.—*Willd. sp. pl.* 2. p. 1226.

Icon. *Fl. dan.* 683.

In fields and woods: Pennsylvania and Virginia.  $\odot$ . June, July. *v. v.* Common *Larkspur*, probably introduced with the seeds of grain from Europe.

445. *ACONITUM*. *Gen. pl.* 928.*uncinatum*.

1. *A. floribus subpentagynis, foliis 3—5-lobis inciso-dentatis, corollarum galea longius extensa*.—*Willd. sp. pl.* 2. p. 1238.

In swamps and on the side of rivulets, on the high mountains of Virginia and Carolina.  $\mathcal{U}$ . June, July. *v. v.* Flowers large; of a fine blue and singular structure. On the foot of the Peaks of Otter and about the Sweet-springs another species occurs, with smaller flowers, and a climbing stem which sometimes attains the height of nine feet; but unfortunately I have no materials at present to give a correct description thereof.

446. *AQUILEGIA*. *Gen. pl.* 934.*canadensis*.

1. *A. cornibus rectis, staminibus exertis*.—*Willd. sp. pl.* 2. p. 1247.

Icon. *Bot. mag.* 246. *Rob. ic.* 296.

In the crevices of rocks: Canada to Carolina.  $\mathcal{U}$ . April, May. *v. v.* Flowers scarlet, mixed with yellow.

447. *CIMICIFUGA*. *Gen. pl.* 993.*Serpentaria*.

1. *C. foliis decompositis, foliolis ovato-oblongis incisibus dentatis: dentibus mucronatis divaricatis, racemis virgatis paniculatis elongatis, floribus submonogynis, capsulis ovatis*.

*Actæa racemosa*. *Willd. sp. pl.* 2. p. 1139.

*Actæa monogyna*. *Walt. fl. car.* 151.

Icon. *Dill. elth.* t. 67. f. 78. *Schkuhr handb.* 139. *Pluk. amalth.* t. 383. f. 3.

nium.

Virginia and  
to four feet

intri-multi-  
equante, nec-  
Willd. sp. pl. 2.

Virginia. ☉.  
probably in-  
trophe.

3.  
inciso-denta-  
—Willd. sp.

on the high  
June, July,  
and singular  
of Otter and  
occurs, with  
ch sometimes  
fortunately I  
rect descrip-

4.  
Willd. sp. pl. 2.

a. 2. April,  
h yellow.

5.  
s incis den-  
cemis virga-  
nogynis, cap-

139. Pluk.

POLYANDRIA DI-PENTAGYNIA. *Cimicifuga*.

373

In shady, stony woods: Canada to Florida. 2. July,  
Aug. v. v. A tall stately plant; spikes long, white;  
generally known under the name of *Black Snake-root*.

2. C. foliis decompositis, foliolis ovatis incis dentatis, den-  
tibus acutis, racemis paniculatis nutantibus, floribus  
5-gynis, capsulis ovatis uncinatis.—Willd. sp. pl. 2.  
p. 1244.

*Actæa Cimicifuga*. Sp. pl. 722.

Icon. Lam. illustr. 487. Amoen. acad. 7. t. 6. f. 2.

On the north-west coast. 2. July, Aug. v. v.

3. C. foliis decomposito-biternatis, foliolis cordatis lobatis  
serrato-dentatis, racemis virgatum-paniculatis elonga-  
tis, floribus 2—5-gynis, germinibus glabris.

C. americana. Mich. fl. amer. 1. p. 316.

In shady woods, on high mountains of Carolina. 2.  
July. v. v.; v. s. in Herb. Lambert. Resembles the  
foregoing very much in general habit.

4. C. foliis simplicibus palmatis, floribus dichotome-pani-  
culatis subcorymbosis polygynis, capsulis brevissimis  
subgloboso-capitatis.—Mich. fl. amer. 1. p. 316.

*Actæa racemosa*. Herb. Walt.

In the beds of mountain rivulets in Virginia and Caro-  
lina. 2. July, Aug. v. v. A very tall and hand-  
some plant; the leaves very large, and the flowers in  
great abundance.

*foetida*.

*cordifolia*.

*palmata*.

448. ASCYRUM. Gen. pl. 1225.

1. A. pusillum, simplex; foliis ovalibus obtusis, pedicellis  
longis reflexis, floribus 1—2-gynis.—Mich. fl. amer. 2.  
p. 77.

A. nummularifolium. Herb. Banks. mss.

In pine-barrens of Georgia. 2. June—Aug. v. s.  
Not above three inches high; flowers small, yellow,  
as are all the following species.

2. A. multicaule, diffusum; foliis sub lanceolato-oblongis  
obtusis, corymbo terminali, floribus subsessilibus 2-  
gynis, caule subtereti.—Willd. sp. pl. 3. p. 1472.

A. multicaule. Mich. fl. amer. 2. p. 77.

In sandy fields and woods: New Jersey to Carolina.  
2. July. v. v. Not above a foot high; flowers  
pale yellow; petals narrow.

3. A. erectum, ramosum; ramis ancipitibus, foliis oblon- *hypericoides*.

*pumilum*.

*Cruz An-  
dreæ*.

gis basi biglandulosis, floribus terminalibus solitariis breviter pedicellatis 3-gynis.—*Willd. sp. pl. 3. p. 1473.*

*A. stans. Mich. fl. amer. 2. p. 77.*

In low overflowed open places, generally in sandy soil : New Jersey to Carolina. *h.* July, Aug. *v. v.* Flowers larger than the former species : it is from one to two feet high.

*amplexicaule.* 4. *A. erectum* ; caule superne dichotome-paniculato, ramis ancipitibus, foliis ovato-oblongis amplexicaulibus, foliolis calycinis exterioribus cordatis, floribus 3-4-gynis.—*Mich. fl. amer. 2. p. 77.*

*A. stans. Willd. sp. pl. 3. p. 1473.*

*Hypericum tetrapetalum. Lam. encycl. 4. p. 153.*

In low grounds and woods : Virginia to Florida. *h.* July, Aug. *v. v.* The flowers and leaves larger than any other sort.

#### 449. HYPERICUM. *Gen. pl. 1224.*

##### \* *Pentagyna.*

*Kalmianum.* 1. *H. fruticosum, ramosissimum* ; ramulis 4-gonis, foliis lineari-lanceolatis, corymbis terminalibus 3—7-floris, laciniis calycis lanceolatis obtusiusculis, capsulis longitudine calycis.—*Willd. sp. pl. 3. p. 1438.*

*H. Bartramianum. Mill. dict. n. 10.*

In Pennsylvania and Virginia. *h.* June, July. *v. s. in Herb. Lambert. v. v. in Hortis.* From three to five feet high : the flowers of the whole genus are yellow.

*pyramidalum.* 2. *H. herbaceum, erectum* ; caule subtetragono ramoso, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis staminibus brevioribus, calycinis foliolis ovatis acutis.—*Willd. sp. pl. 3. p. 1444.*

*H. amplexicaule. Lam. encycl. 4. p. 147.*

*Icon. Vent. malm. 118.*

In Canada? *h.* July, Aug. *v. v. in Hortis.* Flowers the size of *H. Ascyrum*.

*ascyroides.* 3. *H. herbaceum, glabrum* ; caule simplici 4-gono, foliis sessilibus oblongis acutis glabris, floribus terminalibus, stylis longitudine staminum, calycinis foliolis ovato-lanceolatis.—*Willd. sp. pl. 3. p. 1443.*

*H. macrocarpum. Mich. fl. amer. 2. p. 82.*

In Canada and the western parts of New York and Pennsylvania. *h.* July, Aug. *v. v.* Flowers the largest of all the species here enumerated.

\*\* *Trigynæ. Fruticosa.*

4. *H. ramis ancipitibus, foliis ovali-oblongis obtusis mucronatis basi angustatis, floribus terminalibus subsolitariis, calycinis foliolis oblongis acutis staminibusque petalis æquantibus, stylis coadunatis longitudine staminum.* *Mich. fl. amer. 2. p. 81.* *frondosum.*

*H. elatum. Ait. kew. 3. p. 104?*

In shady rocky places in Kentucky and Tennessee. *h.* July, Aug. *v. v.* Resembles *H. Ascyrum* very much; the leaves of the calyx are broad, and sometimes longer than the petals.

5. *H. ramis ancipitibus, foliis ellipticis margine crispato-revolutis supra opacis subtus glaucis, floribus terminalibus subsolitariis sessilibus, calycinis foliolis ovatis acuminatis, petalis deflexis staminibus longioribus, stylis coadunatis longitudine staminum.* *amœnum.*

In South Carolina and Georgia. *Lyon. h.* July, Aug. *v. v.* This elegant species grows to the height of about two feet or more. Every branchlet has from one to three large flowers, of a bright golden yellow; the petals turn downwards, and leave the large crown of stamina in an upright situation, which, with the beautiful red ovate germen in the centre, gives the flower a particularly pleasing appearance.

6. *H. ramis ancipitibus, foliis lanceolato-linearibus obtusiusculis, corymbis axillaribus et terminalibus paucifloris, floribus primordialibus sessilibus staminibus stylisque longitudine petalorum, calycinis foliolis lanceolatis.*—*Willd. sp. pl. 3. p. 1453.* *prolificum.*

*H. Kalmianum. Du Roi herbk. 1. p. 310.*

In Virginia. *Gronov. h.* June—Aug. *v. v. in Hortis.* The most common and most hardy species in the gardens. I rather suspect its native country to be Canada, as most of the shrubby kinds coming from the southern parts are extremely tender.

7. *H. ramis alato-4-gonis, foliis oblongo-lanceolatis obtusiusculis sessilibus, panicula pedunculata dichotoma nudiuscula, floribus solitariis subsessilibus, calycinis laciniis lanceolatis petalis duplo brevioribus, stylis coadunatis staminibus longioribus.*—*Mich. fl. amer. 2. p. 78.* *nudiflorum.*

*H. lævigatum. Ait. kew. 3. p. 106?*

*H. ligustrinum. Herb. Banks. Mss.*

In Carolina. *Michaux.*  $\bar{h}$ . July, Aug. *v. v.* Flowers small. Willdenow in the *Species Plantarum* considers this to be an herbaceous plant, whereas it certainly is a shrub.

*glaucum.*

8. *H. ramis teretibus, foliis oblongis cordatis amplexicaulibus obtusiusculis lævigatis glaucis coriaceis, panicula divaricato-dichotoma foliosa, calycinis foliolis ovatis acutis petalis longioribus, staminibus petalis subæquantibus, stylis coadunatis.*—*Mich. fl. amer.* 2. p. 78.

*H. myrtifolium.* *Lam. encycl.* 4. p. 180.

In Florida. *Michaux.*  $\bar{h}$ . July, Aug. *v. v.* Flowers large.

*densiflorum.*

9. *H. ramosissimum; ramulis subteretibus, foliis linearilanceolatis obtusiusculis basi attenuatis, paniculis terminalibus composite-dichotomis subfoliosis densifloris, floribus solitariis pedicellatis, calycinis lacinii brevissimis ovatis deciduis, staminibus stylisque coadunatis petalis brevioribus.*

*H. rosmarinifolium.* *Lam. encycl.* 4. p. 159?

On the dry ridges and savannahs of the Virginia mountains.  $\bar{h}$ . June, July. *v. v.* About two feet high; flowers middle-sized, in very abundant and close panicles.

*galioides.*

10. *H. ramulis tetragonis, foliis linearibus sessilibus margine revolutis, axillis fasciculato-foliolosis, paniculis terminalibus divaricato-dichotomis, petalis staminibus æquantibus calyce lineari vix longioribus, stylis coadunatis subexertis.*—*Lam. encycl.* 4. p. 161.

In sandy moist places, near rivulets: New Jersey to Carolina.  $\bar{h}$ . July—Sept. *v. v.* About two feet high; flowers the size of No. 9.

*aspalathoides.*

11. *H. ramis subteretibus dichotomis, foliis fasciculatis linearibus acutis striatis, floribus solitariis axillaribus subsessilibus, staminibus petalis brevioribus, stylis coadunatis.*—*Willd. sp. pl.* 3. p. 1451.

*H. fasciculatum.* *Lam. encycl.* 4. p. 160.

In Carolina. *Fraser.*  $\bar{h}$ . +. Flowers of middle size.

*fasciculatum.*

12. *H. ramulis teretibus, foliis quasi verticillatim-fasciculatis linearilanceolatis acutis basi attenuatis petiolatis margine revolutis, pedunculis in apice ramorum axillaribus trifloris, flore medio sessili, calycibus foliiformibus, stylis coadunatis.*—*Willd. sp. pl.* 3. p. 1452. *excl. syn. Michaux.*

*H. axillare*. *Lam. encycl.* 4. p. 161.

*H. Coris*. *Walt. fl. car.* 190.

In pine woods of Georgia and Florida.  $\frac{1}{2}$ . July. *v. v.*

Flowers the size of *H. perforatum*.

13. *H. ramulis angulosis, foliis confertis quasi verticillatim fasciculatis filiformi-linearibus convexis obtusis sessilibus, pedunculis in apice ramulorum axillaribus 1—3-floris, calycibus foliiformibus, stylis coadunatis.* *tenuifolium.*

*H. fasciculatum*. *Mich. fl. amer.* 1. p. 80.

In Georgia. *Engelm. v. s. in Herb. Engelm.* Resembles the foregoing species in many respects.

\*\*\* *Trigynæ. Herbaceæ.*

14. *H. erectum, ramosum; caule ancipiti, foliis oblongis obtusis, pellucido-punctatis, panicula terminali brachiato-foliosa, petalis calyce acuto lanceolato duplo longioribus.*—*Willd. sp. pl.* 3. p. 1460. *perforatum.*

*H. virginicum*. *Walt. fl. car.* 189.

Icon. *Fl. dan.* 1043. *Engl. bot.* 295.

In old fields, meadows, and on dry hills; common.  $\frac{1}{2}$ .

June—Aug. *v. v.* Common *St. John's Wort* has probably been introduced from Europe, but become one of the most pernicious weeds, and is considered very injurious to horses; for, when they feed upon it, blindness and other diseases are said to be the consequence.

15. *H. erectum, glabrum, nigro-punctatum; caule tereti ramoso, foliis amplexicaulibus oblongo-ovalibus obtusis, corymbis terminalibus brachiatis densifloris, calycinis laciniis lanceolatis acutis.*—*Willd. sp. pl.* 3. p. 1457. *corymbosum.*

*H. maculatum*. *Walt. fl. car.* 189.

*H. punctatum*. *Lam. encycl.* 4. p. 164.

In shady woods: New England to Carolina; particularly in the range of the mountains.  $\frac{1}{2}$ . June—Aug. *v. v.* Flowers pale yellow, smaller than the foregoing one.

16. *H. erectum, ramosissimum, glabrum; caule subtetragono, foliis ovato-oblongis subcordatis obtusis nervosis sessilibus, paniculis terminalibus dichotomo-corymbosis, petalis calyce lanceolato brevioribus.*—*Willd. sp. pl.* 3. p. 1456. *parviflorum.*

*H. quinquenervium*. *Walt. fl. car.* 190.

*H. mutilum*. *Willd. sp. pl.* 3. p. 1471.

In overflowed places: Canada to Carolina.  $\frac{1}{2}$ . June—Sept. *v. v.* Flowers small; size very variable.

- triplinerve*. 17. *H. erectum*, subramosum; caule subancipiti, foliis linearibus patentissimis triplinerviis, floribus racemoso-paniculatis, corolla inæquali, calycibus acutis petalisque serrato-glandulosis.—*Vent. hort. cels* 58.  
On the banks of the Ohio. *Michaux.* ♀. July, Aug. +. Flowers the size of *H. perforatum*, pale yellow.
- dolabriforme*. 18. *H. erectum*, ramosum; caule ancipiti, foliis linearilanceolatis patentibus obtusis, corymbo terminali dichotomo, calycibus inæqualibus lanceolatis, petalis dolabriformibus.—*Vent. hort. cels* 43.  
On dry hills of Kentucky. *Michaux.* ♀. June, July. +. Flowers golden yellow.
- angulosum*. 19. *H. erectum*; caule tetragono, foliis oblongis acutis arcte sessilibus, panicula terminali dichotoma, ramis divaricatis distanter alternifloris, calycibus subcampanulatis, laciniis lanceolatis acutis inferne carinatis longitudine fere corollæ, petalis dente unico laterali.—*Willd. sp. pl.* 3. p. 1454? *Mich. fl. amer.* 2. p. 78.  
*H. denticulatum.* *Walt. fl. car.* 190.  
In bogs and cedar-swamps: New Jersey and Carolina. ♀. June, July. v. v. About a foot high; flowers of a beautiful copper colour, of considerable size.
- sphaerocarpum*. 20. *H. erectum*, glaberrimum; foliis oblongis, panicula nuda dichotoma, dichotomis omnibus unifloris, stylis coadunatis, capsula globosa.—*Mich. fl. amer.* 2. p. 78.  
In Kentucky. *Michaux.* ♀. +.
- canadense*. 21. *H. erectum*, pusillum, parviflorum; caule tetragono superne dichotomo, foliis sessilibus linearibus basi attenuatis, paniculæ ramis primariis oppositis, secundariis dichotomis, capsulis longis conoideis coloratis.—*Willd. sp. pl.* 3. p. 1455.  
In low gravelly soil; Canada to Carolina. ☉. June—Aug. v. v. Flowers very small; capsules red.
- Sarothra*. 22. *H. pusillum*, erectum, setaceo-ramosissimum; quasi aphyllum; foliis minutis appressis, floribus in ramulis solitarie alternis 5—10-andris, capsulis oblongis 1-locularibus.—*Mich. fl. amer.* 2. p. 79.  
*H. nudicaule.* *Walt. fl. car.* 190.  
*Sarothra gentianoides.* *Willd. sp. pl.* 1. p. 1515.  
Icon. *Pluk. mant.* t. 342. f. 2.  
In dry sunny situations: New England to Carolina. ☉. June—Aug. v. v. A singular little species; flowers very small; the number of stamina is very variable, according to soil and situation.

23. *H. erectum*, simplicissimum, lanulosum; caule tereti, foliis oblongis adpressis, floribus paucis terminalibus.

*simplex.*—*Mich. fl. amer.* 2. p. 80.*H. pilosum*. *Walt. fl. car.* 190.*H. ferrugineum*. *Herb. Banks. mss.**Ascyrum villosum*. *Willd. sp. pl.* 3. p. 1474.Icon. *Pont. alm.* t. 245. f. 6.

In Lower Carolina and Georgia. ☉. July, Aug. v. s.

24. *H. procumbens*, glaberrimum; ramis ancipitibus summitate paucifloris, foliis linearibus nerviis patulis, calycinis foliolis oblongo-lanceolatis acutis, staminibus corolla brevioribus, stylis coadunatis. —*Mich. fl. amer.* 2. p. 81. *Willd. sp. pl.* 3. p. 1450?

*procumbens.*

On dry sunny hills of Kentucky. *Michaux.* +. The calyx is as large as the corolla.

450. *ETODEA*. *Adanson.**Hyperici* sp. *Linn.*

1. *E. foliis sessilibus amplexicaulis cordato-oblongis obcampanulatis*, fasciculis pedunculatis paucifloris axillaribus et terminalibus, corollis subcampanulatis, staminibus 9—12. levissime basifixis.

*Hypericum virginicum*. *Willd. sp. pl.* 3. p. 1455.*Hypericum campanulatum*. *Walt. fl. car.* 191.Icon. *Bot. rep.* 552.

- β. *E. foliis cordato-ovatis emarginatis, pedunculis axillaribus elongatis.* *emarginata.*

*Hypericum emarginatum*. *Lam. encycl.* 4. p. 154.

In bogs and wet meadows. Canada to Carolina. ♀.

July—Sept. v. v. β. v. in *Herb. Lambert.* Flowers yellowish-red, very handsome.

2. *E. foliis sessilibus, corollis tubulosis, staminibus plusquam ad medium connatis.* *tubulosa.*

*Hypericum tubulosum*. *Walt. fl. car.* 191.

In Carolina. *Walter.* +. I observed in the vicinity of the Dismal-swamp in North Carolina, a species belonging to this genus, of which I have no specimen in my Herbarium, and which probably may be the species alluded to by Walter. The leaves are elliptic and acute; the flowers nearly sessile in the axils of the leaves, solitary or by two or three; the petals are long and acute, pale red; capsules long, prismatic.

3. *E. foliis petiolatis oblongo-ovalibus rotundato-obtusis,* *petiolata.*

floribus oppositis axillaribus subsessilibus subternis, staminibus ad medium usque connatis, capsulis oblongis.

*Hypericum petiolatum*. *Walt. fl. car.* 191.

*Hypericum axillare*. *Mich. fl. amer.* 2. p. 81.

On banks of lakes and rotten wood: Virginia and Carolina. 24. July, Aug. v. v.

### III. POLYGYNIA.

#### 451. ILLICIUM. *Gen. pl.* 940.

- floridanum*. 1. I. foliis acuminatis, petalis numerosis oblongis linearibusque.—*Willd. sp. pl.* 2. p. 1254.  
Icon. *Bot. mag.* 439.  
On the banks of the Mississippi, in West Florida. 2. May, June. v. v. Flowers dark purple, large; leaves of a very aromatic anise-scent, when bruised.
- parviflorum*. 2. I. foliis obtusis, petalis sex calyceque rotundatis concavis.—*Mich. fl. amer.* 1. p. 326.  
I. anisatum. *Bartr. trav.* 24.  
Icon. *Vent. hort. cels* 22.  
In East Florida, on the banks of the river St. John. *Michaux.* 2. May, June. v. v. in *Hortis*. Flowers small, yellow.

#### 452. MAGNOLIA. *Gen. pl.* 942.

- grandiflora*. 1. M. foliis perennantibus ovalibus crassis coriaceis, petalis dilatato-obovatis abrupte in unguem angustatis.—*Willd. sp. pl.* 2. p. 1255.
- elliptica*. α. M. foliis oblongo-ellipticis subtus ferrugineis, floribus subcontractis. *Ait. kew.* 2. p. 251.  
Icon. *Bot. rep.* 518. *Trew ehret.* 33.
- obovata*. β. M. foliis obovato-oblongis, floribus expansis. *Ait. l. c.*
- lanceolata*. γ. M. foliis oblongo-lanceolatis apice flexis concoloribus, floribus subcontractis. *Ait. l. c.*  
Icon. *Mill. ic.* 172. *Catesb. car.* 61. *Mich. arb. t.* 1.  
In the forests of South Carolina and Georgia, reaching west to the Mississippi. 2. May—Aug. v. v. This stately tree, with its elegant foliage and large white flowers, is the prince of the forests of North America. The varieties here mentioned might easily be considered as good species, if there were not so many intermediate ones, which connect them too closely to-

gether. In Carolina it is known by the name of *Big Laurel*.

2. *M. foliis ovalibus subtus glaucis, petalis obovatis basi attenuatis.*—*Willd. sp. pl. 2. p. 1256.*

*glauc.*

- α. *M. foliis deciduis ovali-oblongis obtusiusculis.*—*Ait. kew. 2. p. 251.*

*latifolia.*

Icon. *Dill. elth. t. 168. f. 203. Catesb. car. 1. t. 39. Trew chret. 9. Mich. arb. t. 2.*

- β. *M. foliis perennantibus ellipticis utrinque acutis.*—*Ait. l. c.*

*longifolia.*

In swamps covered with wood: New Jersey to Carolina. β. Georgia and Florida. *h.* May—July. *v. v.* A small tree; flowers white, very fragrant. The variety β. is a taller tree, the branches more upright, and the leaves narrow and long; it might with propriety be considered a distinct species. This species is known by the names of *Swamp Sassafras*, *Sweet Bay*, *Swamp Laurel*, and *Beaver-wood*.

3. *M. ramis medullosis fragilibus, foliis amplissimis oblonge subcuneato-obovalibus basi sinuata subauriculatis subtus glaucis, petalis 6. ovatis obtusis.*—*Mich. fl. amer. 1. p. 327.*

*macrophylla.*

Icon. *Mich. arb. t. 7.*

In the deep forests of Tennessee. *h.* May—July. *v. v. s. fl.* This stately small tree, with its extremely large leaves and white flowers, tinged at the bottom with red, which are larger than *M. grandiflora*, is one of the most ornamental trees America produces.

4. *M. foliis amplis oblonge subcuneato-obovalibus acutis, junioribus holosericeis, petalis 9. ellipticis acutis, exterioribus reflexis.*—*Willd. sp. pl. 2. p. 1258.*

*tripetala.*

*M. umbrella. Lam. encycl. 3. p. 644.*

Icon. *Catesb. car. 2. t. 80. Mich. arb. t. 5.*

In the mountains of Virginia and Carolina. *h.* June, July. *v. v.* Leaves large; flowers white, the size of *M. grandiflora*, and very fragrant. It is generally known by the name of *Umbrella-tree*; in the mountains they call it *Elk-wood*.

5. *M. foliis ovalibus acuminatis subtus pubescentibus, petalis obovatis obtusiusculis.*—*Willd. sp. pl. 2. p. 1257.*

*acuminata.*

Icon. *Catesb. car. 3. t. 15. Mich. arb. t. 3.*

In high mountain-valleys, in fertile soil: Pennsylvania to Carolina. *h.* June, July. *v. v.* Flowers a dim yellow mixed with a faint blue, not much larger than those

of *M. glauca*. It is generally known by the name of *Cucumber-tree*, and its fruits are used as a wholesome bitter among the inhabitants.

- cordata*. 6. *M. foliis cordatis subtus subtomentosis, petalis lanceolato-oblongis acutis*.—*Mich. fl. amer.* 1. p. 328.  
Icon. *Mich. arb. t.* 4.

On dry ridges of mountains in Upper Carolina and Georgia.  $\frac{1}{2}$ . *v. v. s. fl.* Flowers yellow.

- auriculata*. 7. *M. foliis amplis obovato-lanceolatis acutis subtus glaucis basi cordatis auriculatis, lobis approximatis, petalis ovatis acutis sub-unguiculatis*.—*Willd. sp. pl.* 2. p. 1258.

*M. auricularis*. *Parad. lond.* 43.

*M. Fraseri*. *Walt. fl. car.* 159.

Icon. *Bot. mag.* 1206. *Bot. rep.* 573. *Mich. arb. t.* 6.

In the Allegany mountains, from the head-waters of the Susquehanna to Carolina.  $\frac{1}{2}$ . April, May. *v. v.* A beautiful tree; flowers yellowish-white, large. The bark of this and some of the foregoing species is esteemed a valuable medicine, particularly in intermitting fevers; from which circumstance it is known in some places by the name of *Indian Physic*.

- pyramidata*. 8. *M. foliis rhomboideo-obovalibus abrupte acutis concoloribus basi subcordatis auriculatis, lobis divaricatis, petalis lanceolatis sensim acutis*.—*Bartr. trav. p.* . . . .  
*M. auriculata*. *Mich. fl. amer.* 1. p. 328.

In the western parts of Carolina and Georgia.  $\frac{1}{2}$ . April, May. *v. v.* This species has generally been confounded with the foregoing one, from which it not only differs in the distinctions given above, but in general habit: the tree is of a more upright pyramidal growth, and the leaves not one fourth the size of *M. auriculata*.

#### 453. LIRIODENDRON. *Gen. pl.* 941.

- tulipifera*. 1. *L. foliis abscisso-truncatis 4-lobatis, calyce triphylo*.—*Willd. sp. pl.* 2. p. 1254.
- acutiloba*.  $\alpha$ . *L. lobis acutis acuminatisque*. *Mich. fl. amer.* 1. p. 326.  
Icon. *Bot. mag.* 275. *Schmidt arb.* 48. *Catesb. car.* 1. t. 48. *Mich. arb. t.* . . . .
- obtusiloba*.  $\beta$ . *L. lobis rotundato-obtusissimis*. *Mich. l. c.*  
In fertile ground: Canada to Florida.  $\beta$ . in Pennsylvania.  $\frac{1}{2}$ . June, July. *v. v.* A highly ornamental and use-

ful timber tree; flowers yellow and red, mixed with green. Generally known by the name of *Tulip-tree*, or *White* and *Yellow Poplar*.

454. PORCELIA. *Prodr. fl. peruv. p. 84.*

*Orchidocarpum. Mich. fl. amer. 1. p. 329.*

1. *P. foliis glabriusculis oblonge cuneato-obovatis, petalis exterioribus orbiculatis, fructibus magnis carnosiss.*—*Pers. syn. 2. p. 95.*

*Anona triloba. Willd. sp. pl. 2. p. 1267.*

*Orchidocarpum arietinum. Mich. fl. amer. 1. p. 329.*

*Icon. Catesb. car. 2. t. 83. Trew chret. 5. Duham. arb. 1. t. 19.*

On the overflowed banks of rivers: Pennsylvania to Florida.  $\frac{1}{2}$ . March, April. *v. v.* A small tree; flowers dark brown; fruits large, eatable.

2. *P. foliis cuneato-obovatis basi acutis ramulisque rufopubescentibus, petalis omnibus ovalibus, fructibus ovalibus subcarnosis.*—*Pers. syn. 2. p. 95.*

*Orchidocarpum parviflorum. Mich. fl. amer. 1. p. 329.*

In shady woods, near rivers and lakes: Virginia to Georgia.  $\frac{1}{2}$ . April, May. *v. v.* A low shrub, sometimes not above two feet high, when in full fruit; flowers small, dark purple.

3. *P. foliis elongato-lanceolatis cuneatisve lævigatis, petalis exterioribus majoribus obovato-oblongis, interioribus longioribus.*—*Pers. syn. 2. p. 95.*

*Orchidocarpum pygmæum. Mich. fl. amer. 1. p. 330.*

*Anona pygmæa. Willd. sp. pl. 2. p. 1268.*

*Icon. Bartr. trav. t. 1.*

In sandy fields: Georgia and Florida.  $\frac{1}{2}$ . *v. v.* Flowers the size of *Anona squamosa*; the whole shrub not above a foot high.

4. *P. foliis cuneato-obovalibus basi obtusis ramulisque rufopubescentibus, petalis exterioribus majoribus obovatis, interioribus oblongis.*—*Pers. syn. 2. p. 95.*

*Orchidocarpum grandiflorum. Mich. fl. amer. 1. p. 330.*

*Anona obovata. Willd. sp. pl. 2. p. 1269.*

*Icon. Bartr. trav. t. 2.*

In sandy woods, in shady places: Georgia and Florida.  $\frac{1}{2}$ . May. *v. s.* A small shrub: flowers very large in proportion, white.

*triloba.*

*parviflora.*

*pygmæa.*

*grandiflora.*

455. ATRAGENE. *Gen. pl.* 949. *Sims in bot. mag.* 887.*americana.*

1. *A. foliis quaternis ternatis, foliolis cordatis subintegerrimis, nectariis acutis.* *Sims l. c. cum icone.*

In shady places, on the side of rivulets, climbing and creeping among loose rocks: New York and Pennsylvania, near the foot of the Blue-mountains. *h.* May, June. *v. v.* Flowers large, purple.

456. CLEMATIS. *Gen. pl.* 960.*virginica.*

1. *C. scandens; foliis ternatis, foliolis ovatis subcordatis inciso-dentatis lobatisque, corymbis dichotomis paucifloris, petalis staminibus longioribus, floribus dioicis.* — *Willd. sp. pl.* 2. p. 1290.

In hedge-rows and among small shrubberies on the side of woods: Canada to Florida. *h.* June—Aug. *v. v.* Flowers small, white, and fragrant.

*cordatu.*

2. *C. scandens; foliis pinnatis bijugis, foliolis cordatis lobatis acuminatis inciso-dentatis, dentibus mucronatis, racemis compositis elongatis multifloris, staminibus petalis subæquantibus, floribus dioicis.*

On high mountains: Virginia. *h.* July. *v. v.* Flowers resembling the former species. In general appearance it approaches near to *C. Vitalba*.

*holosericea.*

3. *C. scandens, tota holosericeo-pubescent; foliis ternatis oblongo-lanceolatis integris utrinque pubescentibus, corymbis trichotomis paucifloris, petalis linearibus staminibus longioribus, floribus dioicis.*

In Carolina. *h.* *v. s. in Herb. Walter.* The flowers small, white; tails of the seeds very long, feathered.

*Walteri.*

4. *C. scandens; foliis pinnatis cirrhosis trijugis, foliolis divaricatis petiolatis lineari-lanceolatis acutis-integerrimis subtus glaucis, floribus solitariis, petalis ellipticis staminibus duplo longioribus.*

In Carolina. *h.* *v. s. in Herb. Walter.* Flowers white.

*erispa.*

5. *C. scandens; foliis pinnatis ternatisque, foliolis divaricatis ovato-lanceolatis acutis trilobisve integerrimis, floribus solitariis, corollis campanulatis acuminatis revolutis margine undulatis, aristis seminum subulatis nudis.* — *Willd. sp. pl.* 2. p. 1289.

*Icon. Dill. elth. t.* 73. *f.* 84.

In hedges and among bushes on the side of rivers: Vir-

*in bot. mag.* 887.

*foliis subintegerrimis*  
*conice.*

*climbing and*  
*York and Pennsyl-*  
*tainis. h. May,*

60.

*foliis subcordatis*  
*obtusis paucifloris*  
*dicicis.*

*series on the side*  
*—Aug. v. v.*

*foliis cordatis lobatis*  
*mucronatis,*  
*staminibus*

*v. v. Flowers*  
*eral appearance*

*foliis ternatis*  
*pubescentibus,*  
*linearibus sta-*

*The flowers*  
*g, feathered.*

*jugis, foliolis*  
*cutis integerrimis,*  
*petalis ellipticis*

*Flowers white.*

*foliolis divaricatis*  
*integerrimis, floribus*  
*aminatis revolutis*  
*subulatis nu-*

*ivers: Vir-*

ginia and Carolina. *h.* July, Aug. *v. v.* Flowers large, purple.

8. *C. scandens*; foliis pinnatis, foliolis ovatis utrinque acutis glabris simplicibus pedicellatis, pedunculis terminalibus solitariis, corollis cernuis cylindricis, petalis subcoriaceis undulatis conniventibus, aristis seminum plumosis.—*Sims in bot. mag.* 1160.

*C. Viorna. Bot. rep.* 71.

In Virginia and Carolina. *h.* June—Aug. *v. v.* Flowers large, of a fine pale purplish blue.

7. *C. scandens*; foliis pinnatis 4-jugis, foliolis ovatis utrinque obtusis omnibus integris petiolatisque membranaceis utrinque reticulato-venosis, floribus solitariis, petalis subcoriaceis, aristis seminum plumosis.—*Walt. fl. car.* 156. *Mich. fl. amer.* 1. p. 318.

*C. rosea. Abbot insect. t.* . . . .

In Georgia and Carolina. *h.* June, July. *v. s. in Herb. Waller.* Flowers resembling the following species, pale purplish-red.

6. *C. scandens*; foliis divaricato-compositis decompositisque, foliolis ovali-lanceolatis utrinque acutis trifidisque integerrimis, floribus solitariis campanulatis, petalis crassis acuminatis.—*Willd. sp. pl.* 2. p. 1288.

*Icon. Bot. rep.* 71. *Dill. elth. t.* 118. f. 144.

In hedges and copses: Virginia and Carolina. *h.* June—Aug. *v. v.* Flowers dark blue, large.

9. *C. erecta, simplex*; foliis hirsutissimis bipinnatifidis incisis, laciniis linearibus acutis, caulinis composite-multifidis, pedunculo terminali solitario, flore erecto campanulato, petalis 4. erectis ovatis obtusiusculis apice reflexis.

On the plains of Columbia river. *h.* May. *v. s. in Herb. Lewis.* The whole plant is covered with a close coat of long hairs like *Anemone Pulsatilla*, which it very much resembles in several respects. I consider all the division of *Anemones* with caudated seeds to belong to this genus, or at least to one separate from *Anemone*.

10. *C. erecta, simplex, pubescens*; foliis simplicibus ovalibus integerrimis, junioribus calycibusque extus incano-sericeis, pedunculo terminali solitario, flore cernuo.—*Mich. fl. amer.* 1. p. 319.

*C. ochroleuca. Willd. sp. pl.* 2. p. 1294.

*Icon. Bot. mag.* 1175.

*cylindrica.*

*reticulata.*

*Viorna.*

*hirsutissima.*

*sericea.*

On the banks of rivers : Pennsylvania and Virginia ; rare.  
*℥*. May—July. *v. v.* About a foot high ; flowers  
 inside yellow.

457. ANEMONE. *Gen. pl.* 948.

- nemorosa.* 1. *A. caule unifloro, foliis caulinis ternis ternatis, foliolis cuneatis inciso-lobatis dentatis acutis, corollis 5-6-petalis, seminibus ovatis stylo brevi uncinatis.*—*Willd. sp. pl.* 2. p. 1281.  
*Icon. Fl. dan.* 549. *Engl. bot.* 355.
- quinquefolia.* *β. A. foliis lateralibus profunde bipartitis.* *Willd. sp. pl.* 2. p. 1281.  
*Icon. Pluk. alm. t.* 106. *f.* 3.  
 In shady woods, round the roots of trees : Canada to Carolina. *℥*. March, April. *v. v.* Flowers white, with a tinge of red on the under side ; sometimes nearly double. *Var. β.* can never be considered as a species, as there are intermediate varieties between it and the original species.
- lancifolia.* 2. *A. caule unifloro, foliis caulinis ternis ternatis, foliolis lanceolatis crenato-dentatis, corollis 5-petalis, seminibus ovatis stylo brevi uncinatis.*  
*A. trifolia. Willd. sp. pl.* 2. p. 1281 ?  
 On high mountains, in boggy soil : Pennsylvania and Virginia. *℥*. May—July. *v. v.* Resembles the foregoing species ; flowers larger, and clear white.
- cuneifolia.* 3. *A. caule unifloro involocrato, foliis ternatis, foliolis sessilibus cuneatis apice truncato-crenatis, involucro 3-phylo, corollis 5-petalis, seminibus capitato-globosis lanatis acuminatis.*—*Juss. in annal. du mus.* 3. p. 248. *t.* 21. *f.* 1.  
*A. parviflora. Mich. fl. amer.* 1. p. 319.  
*A. tenella. Herb. Banks.*  
 On the banks of rivulets, near Hudson's Bay and Labrador. *℥*. March—May. *v. s. in Herb. Dickson.*  
 Flowers white, the size of No. 1.
- tenella.* 4. *A. caule unifloro involocrato, foliis subbiter-natis, foliolis 3-fidis seu 3-dentatis acutis involucro 3-partito, laciniis incis, petalis 12—15-linearibus, seminibus lanatis mucronatis, radice tuberosa.*  
*A. caroliniana. Walt. fl. car.* 157.  
 On the banks of the Missouri. *M. Lewis.* In Carolina.  
*Walter. ℥*. May. *v. s. in Herb. Lewis* Flowers

purple, small; the whole plant very slender and delicate; roots tuberous.

5. *A. caule unifloro nudo, foliis palmatis longius petiolatis, corolla 5-petala, radice tuberosa.*

*Walteri.*

*Thalictrum carolinianum. Walt. fl. car. 157.*

In Carolina. *Walter. U. +.* I was not able to find any information respecting this plant in the Walterian Herbarium, but consider it to belong rather to this genus than to *Thalictrum*.

6. *A. floribus umbellatis involucratis, foliis radicalibus biter-natis, foliolis subcordatis 3-dentatis, involucre 6-phyllo, foliolis petiolatis conformibus, umbella pauciflora, seminibus nudis striatis, radice tuberosa.—Willd. sp. pl. 2. p. 1284.*

*thalictroides.*

*Thalictrum anemonoides. Mich. fl. amer. 1. p. 322.*

Icon. *Bot. mag. 866. Annales du mus. 3. t. 21. f. 2. a.*

*G. b. Pluk. alm. t. 106. f. 4. Willd. hort. berol. 44.*

- β. *A. involucre unifloro. Gronov. virg.*

*uniflora.*

In woods, frequent: Canada to Carolina. *U. March*—*May. v. v.* Flowers white. A beautiful double variety is cultivated in the gardens, which in delicacy of figure and colour exceeds any other species of this elegant genus.

7. *A. floribus umbellatis involucratis, foliis radicalibus multifido-palmatis incisis, laciniis linearibus, involucris sessilibus incisis, umbella pauciflora, pedicellis involucre longioribus.—Willd. sp. pl. 2. p. 1283.*

*narcissiflora.*

In Canada and on the north-west coast. *U. April, May. v. s.* Flowers white.

8. *A. caule dichotomo, foliis radicalibus palmatis, caulinis sessilibus amplexicaulibus 3-fidis: infimis ternatis; lobis acute lanceolatis inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis subulato-rostellatis.—Willd. sp. pl. 2. p. 1280.*

*pensylvanica.*

*A. aconitifolia. Mich. fl. amer. 1. p. 320.*

In meadows and on the borders of woods: Canada to Pennsylvania. *U. June, July. v. v.* Flowers large, white; anthers yellow.

9. *A. caule dichotomo, foliis caulinis omnibus oppositis amplexicaulibus trifidis, lobis cuneato-lanceolatis superne inciso-serratis, pedunculis solitariis unifloris, seminibus capitulo globoso nudis recurvato-mucronatis. Willd. sp. pl. 2. p. 1280.*

*dichotoma.*

*A. irregularis. Lam. encycl. 1. p. 167.*

Icon. *Linn. fil. dec. 2. t. 15.*

In wet woods and natural meadows: Canada and the western parts of New York. *¶*. May, June. *v. v.* Flowers white, with a tinge of red on the under side, smaller than the foregoing species.

- virginiana.* 10. *A. caule dichotomo, foliis ternis ternatis, superioribus oppositis, foliolis inciso-lobatis serratisque acutis, pedunculis solitariis unifloris elongatis, seminibus capitulo oblongo lanatis mucronatis.—Willd. sp. pl. 2. p. 1279.*

Icon. *Herm. parad. t. 18.*

In woods, on the side of dry sandy hills: Canada to Carolina. *¶*. May, June. *v. v.* Flowers small, greenish-yellow.

#### 488. THALICTRUM. Gen. pl. 951.

- Cornuti.* 1. *T. foliis supradecompositis, foliolis ovatis trifidis, paniculis terminalibus.—Willd. sp. pl. 2. p. 1296.*

Icon. *Corn. canad. 186.*

On the banks of rivers and in wet meadows: Canada to New England. *¶*. June, July. *v. v.* From two to three feet high; flowers small and greenish-yellow.

- dioicum.* 2. *T. lævigatum; foliis supradecompositis, foliolis subrotundis cordatis obtuse-lobatis subtus glaucis lævibus, paniculis axillaribus filiformibus folio brevioribus, floribus parvis in umbellis paucifloris.—Willd. sp. pl. 2. p. 1296.*

*T. lævigatum. Mich. fl. amer. 1. p. 322.*

In shady woods and on the banks of rivers: Canada to Virginia. *¶*. May—July. *v. v.* Not above a foot high; flowers white.

- rugosum.* 3. *T. caule striato, foliis supradecompositis, foliolis ovatis lanceolatisque rugosis venosis obtuse-lobatis, paniculis amplis terminalibus.—Willd. sp. pl. 2. p. 1298.*

On the banks of rivers and in swamps: Pennsylvania to Carolina. *¶*. June—Aug. *v. v.* Very tall, sometimes above five feet high; flowers white.

- pubescens.* 4. *T. tenui tomento pubescens; foliis supradecompositis, foliolis ovatis subcordatis cuneatisque apice 3-lobis, supra subrugosis, subtus subtomentosis, paniculis terminalibus, pedicellis subumbellatis divaricatis, floribus polygamis.*

*T. polygamum. Muhl. mss.*

Canada and the  
ay, June. v. v.  
n the under side,

is, superioribus  
sque acutis, pe-  
seminibus capi.  
Willd. sp. pl. 2.

Canada to Ca-  
rs small, green.

951.

s trifidis, pani-  
p. 1296.

adows: Canada  
. v. From two  
reenish-yellow.  
foliolis subro-  
taucis lævibus,  
revioribus, flo-  
Willd. sp. pl. 2.

rs: Canada to  
t above a foot

foliolis ovatis  
patis, paniculis  
p. 1298.

Pensylvania to  
ry tall, some-  
e.

decompositis,  
pice 3-lobis,  
paniculis ter-  
catis, floribus

POLYANDRIA POLYGYNIA. *Thalictrum*.

389

On the banks of ditches and rivulets: Pennsylvania and Virginia.  $\mathcal{U}$ . June—Aug. v. v. A tall species; flowers white.

5.  $\mathcal{U}$ . caule foliis duplo altiore, foliis compositis, foliolis *purpurascens*. subrotundis 3-fidis incisis, paniculis nudiusculis, floribus cernuis, staminibus coloratis.—*Willd. sp. pl.* 2. p. 1299.

On dry sunny hills: Pennsylvania and Virginia.  $\mathcal{U}$ . May, June. v. v. A small plant; stem and filaments purple.

6.  $\mathcal{T}$ . foliis simplicibus 5-lobis serratis, floribus corymbosis.—*Willd. enum.* 585.

In Carolina. *Willdenow*.  $\mathcal{U}$ . +. Flowers resembling those of *T. speciosum*.

*ranunculi-  
num*.

459. HYDRASTIS. *Gen. pl.* 958.

1.  $\mathcal{H}$ . caule superne oppositè diphylo, foliis petiolatis basi emarginatis palmatis serratis incisis, pedunculo terminali solitario unifloro.—*Willd. sp. pl.* 2. p. 1340.

Icon. *Mill. ic. t.* 285.

In shady woods, on fertile soil and among rocks: Canada to Carolina, principally in the Allegany mountains.  $\mathcal{U}$ . April, May. v. v. Flowers pale rose-coloured; berry red. The roots are yellow, and afford a fine dye.

*canadensis*.

460. BRASENIA. *Gen. pl.* 938.

*Hydropeltis*. *Mich. fl. amer.* 1. p. 323.

1.  $\mathcal{B}$ . foliis centro peltatis ovalibus integerrimis, pedunculis solitariis unifloris.

*Hydropeltis purpurea*. *Mich. fl. amer.* 1. p. 324. t. 29.

Icon. *Bot. mag.* 1147. *Pluk. alm. t.* 349. f. 3.

In lakes and slow-flowing waters: New Jersey to Carolina.  $\mathcal{U}$ . June—Aug. v. v. Floating on the water; the whole plant has a purple colour; the flowers dark purple, the size of *Caltha*; the petioles and under surface of the leaves are covered with a transparent gelatinous substance.

*peltata*.

461. CALTHA. *Gen. pl.* 957.

1.  $\mathcal{C}$ . caule erecto unifloro unifolio, foliis radicalibus cordato-ovatis obtusissimis paucidentatis multinerviis, petalis ellipticis.

*ficarioides*.

*Ranunculus Ficaria*. *Walt. fl. car.* 159.

In shady cedar-swamps of New Jersey and Carolina.

℥. June, July. *v. v.* Flowers deep yellow, the size of *Ranunculus Ficaria*.

*integerrima*. 2. *C. caule erecto corymboso, foliis integerrimis sinu clauso orbiculato-cordatis, floralibus sessilibus reniformibus basi obsolete crenatis, petalis obovalibus.*

In wet meadows and small rivulets: New England to Virginia. ℥. May—July. *v. v.* Flowers yellow, smaller than the following species.

*palustris*. 3. *C. caule erecto corymboso, foliis cordato-reniformibus: lobis patulis, circumcirca acute-crenatis, floralibus subsessilibus, petalis ovatis.*—*Willd. sp. pl.* 2. p. 1338.

*Icon. Fl. dan.* 668. *Engl. bot.* 506.

In low boggy meadows: Canada to Pennsylvania. ℥. April—June. *v. v.* Flowers golden yellow, large.

*flabellifolia*. 4. *C. caule procumbente, foliis dilatato-reniformibus: lobis patentissimis, circumcirca argute acuteque dentatis, pedunculis axillaribus solitariis unifloris, petalis obovatis, capsulis rostro adunco.*

In a large sand-spring on Pokono-mountain, Pennsylvania. ℥. July, Aug. *v. v.* Flowers yellow, the size of *Ranunculus arvensis*. This plant has some affinity with *C. natans* *Willd. sp. pl.* 2. p. 1339. of which I have seen perfect specimens in the Herbarium of A. B. Lambert, Esq., collected by Pallas in the most eastern parts of Siberia, under the name of *C. pusilla*, which I distinguish by the following diagnosis: *Caltha natans*, caule procumbente natante, foliis cordato-reniformibus: lobis subapproximatis, postice obsolete crenatis, antice dentatis, petalis ovalibus, capsulis rostro recto. The flowers of that species are white, with a tinge of red, of the same size as the present species.

#### 462. COPTIS. *Salisb. in linn. trans.* 8. p. 305.

*trifolia*.

1. *C. foliis ternatis, foliolis rotundato-obovalibus acuminate-crenatis, scapo unifloro.*—*Salisb. l. c.*

*Helleborus trifolius*. *Willd. sp. pl.* 2. p. 1338.

*Icon. Fl. dan.* 566.

In cedar-swamps and mountain bogs: Canada to Virginia. ℥. May—July. *v. v.* A delicate small plant; flowers white.

d Carolina.  
ow, the size

sinn clauso  
eniformibus

England to  
ers yellow,

eniformibus:  
ralibus sub-  
p. 1336.

vania. 2.  
ow, large.

hibus: lobis  
ne dentatis,  
talis obova-

Pennsylvania.  
the size of  
me affinity  
of which I  
arium of A.  
n the most  
*C. pusilla*,  
sis: *Caltha*  
cordato-re-  
ce obsolete  
capsulis ros-  
white, with  
ent species.

305.

s acumina-

8.

la to Virgi-  
small plant;



*Caltha flabellifolia.*

2. C

O

1. T

T

T

In

1. H

A

Ice

$\alpha$ . H

$\beta$ . H

In

1. R.

Ice

In

2. R.

Ice

Or

VOL. 1

2. *C. foliis biternatis, foliolis subpinnatifidis, scapo bifloro. asplenifolia.*  
—*Salisb. l. c. p. 306.*

On the north-west coast. *Menzies. 4. v. s. in Herb. Banks.* Flowers larger than the foregoing one.

463. *TROILIUS*. *Gen. pl. 954.*

1. *T. petalis 5, obtusis patulis, nectariis staminibus brevioribus. Salisb. in linn. trans. 8. p. 303.*

*laxus.*

*T. americanus. Donn catal.*

*T. pentapetalus. Herb. Banks.*

In shady wet places, on the mountains of New York and Pennsylvania. 4. May—July. v. v. Flowers yellow, the size of *Ranunculus acris*.

464. *HEPATICA*. *Willd. enum. ....*

1. *H. foliis trilobis integerrimis, v. unifloris. —Willd. enum.*

*triloba.*

*Anemone Hepatica. Willd. p. 1273.*

Icon. *Bot. mag. 10. Fl. dan. 610.*

*α. H. lobis rotundatis obtusis.*

*obtusa.*

*β. H. lobis ovalibus acutis.*

*acuta.*

In woods, on the side of fertile and rocky hills: Canada to Carolina. 4. March—May. v. v. Flowers blue or purple; generally smaller than in the European plant.

465. *RANUNCULUS*. *Gen. pl. 953.*

\* *Foliis simplicibus, integris.*

1. *R. glaber, caule declinato, foliis angusto-lanceolatis acutis integerrimis denticulatisque, inferioribus petiolatis, pedunculis terminalibus axillaribus unifloris, calycibus subreflexis. —Willd. sp. pl. 2. p. 1307.*

*Flammula.*

Icon. *Fl. dan. 575. —Engl. bot. 387.*

In inundated places and small rivulets: Pennsylvania and Virginia. 4. July—Sept. v. v. Flowers deep yellow, small.

2. *R. adpresso-pilosus; foliis lanceolatis subdenticulatis acuminatis subsessilibus, caule erecto multifloro. —Willd. sp. pl. 2. p. 1308.*

*Lingua.*

Icon. *Engl. bot. 100. Fl. dan. 755.*

On the banks of rivers, among scirpus and other river plants: Pennsylvania and Virginia. 4. July, Aug.

*v. v.* Resembles the preceding one, but is upright, the flowers larger and in greater abundance.

*pusillus*.

3. *R.* glaber; foliis petiolatis, inferioribus ovatis dentatis, superioribus lineari-lanceolatis apice dentatis, supremis linearibus bracteiformibus, pedunculis alternis solitariis unifloris.

*R. flammula*. *Walt. fl. car.* 159. *Mich. fl. amer.* 1. p. 321.

¶ June—Aug. *v. s.* in *Herb. Enslen*. A small species, with exceeding small flowers, petals pale yellow.

*filiformis*.

4. *R.* glaber, *pusillus*; caulibus filiformibus repentibus geniculatis, geniculis unifloris, foliis lineari-subulatis obtusis.—*Mich. fl. amer.* 1. p. 320.

In inundated places, on the river St. Laurence, Hudson's Bay, and Labrador. ¶ June, July. *v. s.* in *Herb. Banks*. Resembles *R. reptans* very much.

*Cymbalaria*.

5. *R.* glaber, minimus, filiformis, repens, ad genicula radicans; foliis cordato-reniformibus obtuse 3-dentatis, pedunculis radicalibus solitariis plerumque bifloris, petalis linearibus; fructibus oblongis.

In saline marshes near the salt-works of Onondago, New York. ¶ June, July. *v. v.* Flowers the size of the foregoing one, pale yellow, sometimes white. This little plant has some resemblance to *R. salsuginosus* of Pallas, whose specimens I had an opportunity of seeing in the collection of A. B. Lambert, Esq. and which may be distinguished by the following diagnosis: *R.* glaber, filiformis, repens, ad genicula radicans; foliis ovatis rariter cordatis apice 3-dentatis, pedunculis radicalibus solitariis plerumque unifloris, petalis obovatis, fructibus subglobosis. The flowers are more than ten times larger than in *R. Cymbalaria*.

**\*\* Foliis dissectis et divisis.**

*abortivus*.

6. *R.* glaber; caulibus striatis inferne nudis, foliis radicalibus cordato-reniformibus obtuse-crenatis, caulinis petiolatis ternatis angulatis, superioribus sessilibus, ramulis subtrifloris.—*Willd. sp. pl.* 2. p. 1314.

In wet places on the side of ponds and ditches: New York to Carolina. ¶ July, Aug. *v. v.* Flowers small, yellow.

*nitidus*.

7. *R.* glaberrimus; caulibus fistulosis, foliis radicalibus rotundato-subreniformibus obtuse-crenatis, caulinis ses-

silibus digitatis, foliis incisis, lacinii obtusis, seminibus subglobosis glaberrimis.—*Walt. fl. car.* 159. *Lam. encycl.* 6. p. 126.

In inundated grounds: New York to Carolina. *¶*. July, Aug. *v. v.* Flowers small; petals white. This and the foregoing one are nearly related to each other, and probably only varieties of the same species, though distinguished by Walter and Lamarck.

8. *R. glaber*; foliis inferioribus palmatis, superioribus sessilibus digitatis, fructibus oblongis.—*Willd. sp. pl.* 2. p. 1315.

Icon. *Fl. dan.* 571. *Engl. bot.* 681.

In ponds and ditches: Canada to Virginia. *¶*. June—Aug. *v. v.* Flowers yellow, small.

9. *R. pubescens*; foliis radicalibus reniformibus tripartitis inciso-crenatis, caulinis sessilibus digitatis linearibus, caule multifloro, calyce colorato patente.—*Willd. sp. pl.* 2. p. 1314.

Icon. *Fl. dan.* 665. *Engl. bot.* 624.

In old meadows and woods: Pennsylvania. *¶*. May, June. *v. v.* Flowers yellow, middle-sized.

10. *R. pusillus*, glaber; foliis radicalibus subcordato-reniformibus inciso-dentatis, caulinis sessilibus digitatis, lacinii linearibus integerrimis, caule paucifloro, petalis oblongis calyce subæquantibus.

In Labrador. *Colmaster. ¶*. May, June. *v. s. in Herb. Dickson.* Flowers small, yellow; it approaches very near to *R. nivalis*.

11. *R. pilosus*, erectus, ramosus; foliis ternatis trifidis incisis subtus pilosis, pedunculis teretibus, calycibus reflexis, petalis calyce subæquantibus.—*Willd. sp. pl.* 2. p. 1323.

*R. canadensis. Jacq. ic. rar.* 1. t. 105.

In low meadows: Canada to Pennsylvania; rare. *¶*. July, Aug. *v. v.* Flowers the size of *R. acris*.

12. *R. hirsutissimus*; foliis compositis: ternatis trifidis incisis dentatisque, caule erecto multifloro, pedunculis sulcatis, calycibus retroflexis, radice bulbosa.—*Willd. sp. pl.* 2. p. 1324.

Icon. *Fl. dan.* 551. *Engl. bot.* 515.

In meadows and grass plots, common. *¶*. May—Aug. *v. v.*

13. *R. hirsutus*; foliis ternatis inciso-lobatis, caule erecto

*scleratus.*

*auricomus.*

*pygmaeus.*

*pensylvanicus.*

*bulbosus.*

*Philonotis.*

multifloro, pedunculis sulcatis, calycibus retroflexis acuminatis, seminibus tuberculatis, radice fibrosa.—  
*Willd. sp. pl. 2. p. 1324.*

*R. hirsutus*, *Curt. lond. 2. t. 40. Engl. bot. 1504.*

In old meadows and low wet fields: New England to Pennsylvania.  $\mathcal{U}$ . June—Oct. *v. v.* Resembles the foregoing one.

*repens*.

14. *R. hirsutus*; foliis compositis: ternatis trifidis incisis, sarmentis repentibus, pedunculis sulcatis, calycibus patulis. *Willd. sp. pl. 2. p. 1325.*

*Icon. Fl. dan. 795. Engl. bot. 516.*

In shady wet woods, particularly in the mountains: Pennsylvania to Virginia.  $\mathcal{U}$ . July, Aug. *v. v.* Flowers deep yellow.

*acris*.

15. *R. adpresso-pilosus*; foliis tripartito-multifidis, summis linearibus, pedunculis teretibus, calycibus patulis.—  
*Willd. sp. pl. 2. p. 1326.*

*Icon. Engl. bot. 652.*

In wet meadows; in the western parts of New York and Canada.  $\mathcal{U}$ . May—Aug. *v. v.*

*lanuginosus*.

16. *R. hirsutus*; foliis trifidis lobatis dentatis holosericeis, pedunculis elongatis teretibus, calycibus patulis.—  
*Willd. sp. pl. 2. p. 1327.*

*Icon. Fl. dan. 397.*

In old fields and meadows: Pennsylvania to Carolina.  $\mathcal{U}$ . June—Oct. *v. v.*

*tomentosus*.

17. *R. villosissimus*, humilis; caule repente 1-2-floro, foliis tomentosis trilobatis, calycibus hispidis subreflexis.—  
*Lam. encycl. 6. p. 127.*

In Carolina. *Bosc. \mathcal{U}. +.* Flowers yellowish-white.

*marylandicus*.

18. *R. pubescens*; caule simplici subnudo, foliis radicalibus ternatis, foliolis trilobatis, lobis acutis incisis, calycibus reflexis. *Lam. encycl. 6. p. 126.*

In shady woods: Pennsylvania to Virginia.  $\mathcal{U}$ . May—July. *v. v.* Flowers pale yellow.

*recurvatus*.

19. *R. pubescens*; foliis trilobis, lobis basi cuneiformibus, apice incisis acutis, caule multifloro, corolla calycibusque recurvis, petalis linearibus.—*Lam. encycl. 6. p. 125.*

In shady woods: New York to Carolina.  $\mathcal{U}$ . June—Aug. *v. v.* Flowers small; petals almost white.

*septentrionalis*.

20. *R. glabriusculus*; foliis membranaceis glabris ternatis, foliolis subtrilobatis incisis acutis, caule petiolisque

basi hirsutis, pedunculis subbifloris, calycibus reflexis.  
*Lam. encycl.* 6. p. 125.

In North America. *Lamarck.* 2. +. Flowers pale yellow.

21. *R. hirsutissimus*, erectus; foliis ternatis, foliolis acute lobatis, caulibus infra primum pedunculum nudis paucifloris, calyce appresso. *Mich. fl. amer.* 1. p. 321.

In wet fields and on the banks of ditches: Virginia and Carolina. 2. June—Aug. v. v. Flowers small, pale yellow.

*hispidus.*

22. *R. foliis submersis capillaceis, emersis peltatis.* *Willd.* sp. pl. 2. p. 1332.

*R. heterophyllus.* *Roth fl. germ.* 1. p. 240.

Icon. *Engl. bot.* 101. *Fl. dan.* 376.

In ponds and slow-flowing rivulets: Canada to New York. 2. June, July. v. v. Flowers white.

*aquatilis.*

23. *R. foliis omnibus dichotomo-capillaceis, caule natante.*

*Willd. sp. pl.* 2. p. 1333.

Icon. *Fl. dan.* 376.

In tranquil rivers: Pennsylvania to Carolina. 2. June—Aug. v. v. Flowers white.

*fluviatilis.*

\*\*\* *Seminibus aculeatis.*

24. *R. glabellus, diffusus; foliis simplicibus subrotundis trilobatis, calycibus longitudine corollarum.*—*Willd. sp. pl.* 2. p. 1329.

Icon. *Lam. illustr. t.* 498. f. 2. *Alp. exot.* 262.

In old fields: Virginia and Carolina. ☉. June, July. v. v. Flowers yellow.

*muricatus.*

25. *R. glabellus, simplex; foliis simplicibus subrotundis trilobatis, petalis calyce duplo longioribus.*—*Vent. hort. cels.* 73.

Near Charlestown, South Carolina. *Bosc.* +. Flowers yellow, more than twice the size of the preceding one.

*echinatus.*

466. SAGITTARIA. *Gen. pl.* 1441.

1. *S. foliis lanceolatis acutis sagittatis, lobis lanceolatis acutis rectis, scapo simplici, floribus monoicis, bracteis calycibusque lanceolatis acutis.*—*Willd. sp. pl.* 4. p. 408.

Icon. *Fl. dan.* 172.

In small ponds and ditches: Pennsylvania to Carolina.

*sagittifolia.*  
 β. minor.

- ♀. July, Aug. *v. v.* Leaves not above two inches long; flowers, as in all the following species, white.
- latifolia* 2. *S. foliis ovatis acutiusculis sagittatis, lobis ovatis tenuissime acuminatis rectis, scapo simplici, floribus monoicis, bracteis subrotundis obtusis.*—*Willd. sp. pl.* 4. p. 409.  
*S. sagittifolia. Mich. fl. amer.* 2. p. 189.  
 major. β. *S. foliis amplis abrupte acutis, scapo subramoso, floribus dioicis.*  
 In ponds and ditches: Canada to Carolina. ♀. June—Aug. *v. v.* Leaves large and broad.
- obtusa.* 3. *S. foliis dilatato-ovatis rotundato-obtusis mucronatis sagittatis, lobis approximatis oblongis oblique-acuminatis rectis, scapo simplici, floribus dioicis, bracteis ovatis acutis.*—*Willd. sp. pl.* 4. p. 409.  
 In ditches and shallow ponds: Pennsylvania to Virginia. ♀. June—Sept. *v. v.* Leaves the size of *Calla palustris*.
- hastata.* 4. *S. foliis oblongo-lanceolatis sensim-acutis sagittatis, lobis patentibus lanceolatis longissime acuminatis, scapo simplici, floribus dioicis, bracteis calycibusque subrotundis obtusis.*  
 In old ditches: Pennsylvania. ♀. July, Aug. *v. v.* Leaves the size of *S. sagittifolia*; the lobes very spreading.
- gracilis.* 5. *S. foliis linearibus obtusiusculis 3-nervibus sagittatis, lobis patentibus linearibus elongatis sensim tenuissime acuminatis, scapo simplici paucifloro, floribus dioicis, bracteis brevibus suborbiculatis.*  
 In bogs and ditches: Pennsylvania to Virginia, particularly on the mountains. ♀. July, Aug. *v. v.* Leaves very slender, about three inches long, measured from the beginning of the petiole.
- heterophylla.* 6. *S. foliis simplicibus linearibus lanceolatisque utrinque acutis, seu ellipticis acutis basi obtusis sagittatis, lobis divaricatis linearibus, scapo simplici paucifloro, floribus monoicis, femineis subsessilibus, bracteis luto-ovatis acuminatis.*  
 In small ponds and ditches: Pennsylvania and New Jersey. ♀. June—Aug. *v. v.* Leaves about two inches and a half long: this species is easily distinguished by the female flowers being almost sessile.

7. *S. foliis lato-lanceolatis inferne angustatis, scapo subramoso, seminibus planis falcatis rostratis.*  
*S. lancifolia. Mich. fl. amer. 2. p. 189.*  
 In ponds: Carolina. *Y.* July, Aug. *v. s. in Herb. Lyon.* *falcata.*
8. *S. foliis angusto-lanceolatis inferne carinatis rigidis utrinque acutissimis, scapo ramoso, floribus monoicis.*  
 In still and deep waters of Oswego river near the great falls, New York. *Y.* July, Aug. *v. v.* This species grows in a depth of more than seven feet water; the petioles are strong and stiff; the flowers very numerous. *rigida.*
9. *S. foliis linearilanceolatis acutis inferne angustatis, scapo simplici multifloro, floribus dioicis, bracteis calycibusque rotundatis obtusis.* *simplex.*  
 In small ponds: New Jersey. *Y.* July, Aug. *v. v.* Leaves about six inches long and half an inch wide; flowers from twelve to eighteen in a scape.
10. *S. foliis linearibus longissimis 3 nervibus, scapo simplici paucifloro, floribus monoicis, bracteis oblongis obtusis.* *graminea.*  
*S. graminea: foliis lanceolato-linearibus, capitulis pistillorum pusillis. Mich. fl. amer. 2. p. 190?*  
 In Carolina, *Lyon.* Canada. *Michaux.* *Y.* July, Aug. *v. s. in Herb. Lyon.*
11. *S. foliis subulatis basi vaginantibus dorso convexis, scapo simplici paucifloro, floribus monoicis, bracteis dilatatis acuminatis.* *acutifolia.*  
 In small rivulets and ditches, near Philadelphia. *Y.* July, Aug. *v. v.* A small species; leaves sometimes with a dilated point, representing a leaf.
12. *S. foliis natantibus elliptico-lanceolatis obtusis 3-nervibus basi attenuatis, infimis subcordatis, scapo simplici paucifloro, pedunculis inferioribus elongatis.—Mich. fl. amer. 2. p. 190.* *natans.*  
 In rivulets of Lower Carolina. *Y.* July, Aug. *v. s. in Herb. Lyon.* Flowers small; leaves about an inch and a half long.

aria.  
 ove two inches  
 species, white.  
 ovatis tennia-  
 floribus monoi-  
 illd. sp. pl. 4.  
 amoso, floribus  
 . *Y.* June—  
 mucronatis sa-  
 lique-acumina-  
 , bracteis ova-  
 ia to Virginia.  
 ze of *Calla pa-*  
 sagittatis, lobis  
 minatis, scapo  
 cibusque sub-  
 , Aug. *v. v.*  
 he lobes very  
 bus sagittatis,  
 sim tenuissime  
 floribus dioicis,  
 ginia, particu-  
 . *v. v.* Leaves  
 measured from  
 eque utrinque  
 agittatis, lobis  
 ucifloro, flori-  
 bracteis lato-  
 and New Jer-  
 ut two inches  
 distinguished  
 e.

467. CYAMUS. *Salisb. in annals of bot. 2. p. 75.*Nelumbium. *Willd. sp. pl. 2. p. ....**Navicomus.*

1. *C. foliis peltatis orbiculatis integerrimis, corolla polypetala, antheris superne linearibus.*—*Salisb. l. c.*  
*Nelumbium luteum. Willd. sp. pl. 2. p. 1259.*  
*Nymphæa Nelumbo β. Sp. pl. 730.*  
*Icon. Bartr. ic. ined. in mus. Banks.*

In ponds and lakes of Carolina and Virginia; also near Philadelphia, in ditches and ponds of Brobston's meadows. *℥. July. v. v.* Flowers large, yellow, resembling a double tulip. The seeds are very agreeable to eat, and eagerly sought for by children and Indians. By the latter it is supposed they were introduced to those ponds near Philadelphia, as there is no other instance known to have been found so far north. Walter mentions his *Nelumbo* to have white flowers; this variety I have never seen.

*pentapetalus.*

2. *C. foliis peltatis orbiculatis integerrimis, calyce pentaphyllo, corolla pentapetala.*  
*Nelumbium pentapetalum. Willd. sp. pl. 2. p. 1259.*  
*Nymphæa pentapetala. Walt. fl. car. 155.*

In North and South Carolina. *℥. July. v. s.* Flowers large, white. A specimen seen in the collection of a gentleman in Carolina ascertains the existence of this formerly doubtful plant; but unfortunately I took no notes at that time, being in expectation of seeing the living plant.

*reniformis.*

3. *C. foliis reniformibus, corolla polypetala.*  
*Nelumbium reniforme. Willd. sp. pl. 2. p. 1260.*  
*Nymphæa reniformis. Walt. fl. car. 155.*  
 In Carolina, *Walter. ℥. +.* This is a doubtful species, and probably a plant belonging to a different genus.

468. POTHOS. *Gen. pl. 210.**fætida.*

1. *P. acaulis; foliis ovatis cordatis, spadice subgloboso.*—*Mich. fl. amer. 2. p. 186.*  
*Dracontium fætidum. Willd. sp. pl. 2. p. 288.*  
*Icon. Bot. mag. 836. Catesb. car. 2. t. 71.*  
 In low grounds, on the side of shady rivulets and springs: Canada to Virginia. *℥. Feb.—April. v. v.* Leaves large; flowers several, almost sessile on the ground,

of a singular shape, spotted yellow and brown; the whole plant very foetid, from which it has the name of *Skunk-weed* or *Skunk-cabbage*. It has four distinct, truncated, fleshy petals, and four stamina to each germ.

## 469. CALLA. Gen. pl. 1388.

1. *C. foliis subrotundo-cordatis acutis, spatha ovata cuspidata.*—*Willd. sp. pl. 2. p. 290.* *palustris.*

Icon. *Fl. dan. 422.*

In sphagnous swamps, on the mountains and near rivulets: Canada to Pennsylvania.  $\mathcal{U}$ . July, Aug. *v. v.* Flowers white.

## 470. ARUM. Gen. pl. 1387.

1. *A. acaule; foliis hastato-cordatis acutis, lobis obtusis, spatha elongata incurva, spadice superne longius masculifloro.*—*Willd. sp. pl. 4. p. 484.* *virginicum.*

*Calla virginica. Mich. fl. amer. 2. p. 187.*

In overflowed places on the banks of rivers, among *Scirpi* and *Junci*.  $\mathcal{U}$ . June, July. *v. v.* Spatha long, involute, green.

2. *A. acaule; foliis subhastato-sagittatis, lobis oblongis, sagittifolium, spatha cucullata superne ovali, spadice longo a medio ad apicem masculifloro.*

*Calla sagittifolia. Mich. fl. amer. 2. p. 167.*

*Caladium sagittifolium. Willd. sp. pl. 4. p. 489?*

On the banks of rivers and old swamps: Pennsylvania to Carolina.  $\mathcal{U}$ . July, Aug. *v. v.*

3. *A. acaule; foliis ternatis, foliolis ovatis acuminatis, spadice cylindrico spatha sessili ovata acuminata horizontaliter patenti altiore.*—*Willd. sp. pl. 4. p. 481.* *atrorubens.*

Icon. *Pluk. alm. t. 148. f. 6. bona.*

In swamps of Virginia and Maryland.  $\mathcal{U}$ . May, June. *v. v.* Spatha dark brown, of a disagreeable smell.

4. *A. subcaulescens; foliis ternatis, foliolis ovatis acuminatis, spadice clavato spatha ovata acuminata plana pedunculata dimidio brevior, floribus monoicis.*—*Willd. sp. pl. 4. p. 480.* *triphyllum.*

$\alpha$ . *A. spatha virescente.*

Icon. *Pluk. amalth. t. 376. f. 3.*

$\beta$ . *A. spatha atropurpurea.*

Icon. *Pluk. alm. t. 77. f. 5.*

In shady wet woods: Canada to Carolina.  $\mathcal{U}$ . June,

*virens.*

*atropurpureum.*

July. v. v. Flowers handsomely green and yellow, or green and purple striped. Roots known as a medicine among the natives, particularly in colics: they are generally called *Indian Turnips*.

*Dracontium*. 3. A. acaule; foliis pedatis, foliis lanceolato-oblongis integerrimis, spadice subulato spatha oblonga convoluta longiore.—*Willd. sp. pl.* 4. p. 478.

Icon. *Pluk. alm.* t. 271. f. 2.

In shady woods: Virginia to Florida. ♀. June, July. v. v.

471.

472.

473.

474.

475.

476.

477.

478.

479.

480.

481.

482.

am.

en and yellow,  
nown as a m-  
in culics: they

to-oblongis in-  
onga convolute

l. June, July.

## XIII. DIDYNAMIA.

### I. GYMNOSPERMIA.

\* *Calyces subquinquefid.*

471. **AJUGA.** *Cor.* labium superius minimum bidentatum. *Stamina* labio superiore longiora.
472. **TEUCRIUM.** *Cor.* labium superius nullum, sed fissura ejus loco in qua *Stamina* jacent.
473. **MENTHA.** *Cor.* subæqualis, 4-fida: lacinia latiore emarginata. *Stam.* erecta, distantia.
474. **ISANTHUS.** *Cal.* campanulatus. *Cor.* 5-partita: tubo recto, angusto: laciniiis ovatis æqualibus. *Stam.* subæqualia. *Stigm.* linearia, recurva.
475. **CUNILA.** *Cal.* cylindricus, 5-dentatus, fauce villosus. *Cor.* ringens: labio superiore erecto, plano, emarginato. *Stam.* 2. sterilia.
476. **HYSSOPUS.** *Cor.* labium inferius tripartitum, lacinula intermedia crenata. *Stam.* recta, distantia.
477. **NEPETA.** *Cal.* aridus, striatus. *Cor.* tubo longiusculo: labio inferioris lacinula intermedia crenata; faux margine reflexo. *Stam.* approximata.
478. **LAMIUM.** *Cor.* labium superius integrum, fornicatum: labium inferius bilobum: faux utrinque margine dentata.
479. **GALEOPSIS.** *Cor.* labium superius subcrenatum, fornicatum: labium inferius supra 2-dentatum.
480. **STACHYS.** *Cor.* labium superius fornicatum: labium inferius lateralibus reflexum: lacinia intermedia majore emarginata. *Stam.* deflorata versus latera reflexa.
481. **LEONURUS.** *Cal.* 5-gonus, 5-dentatus. *Cor.* labium superius villosum, planum, integrum: inferius tripartitum, lacinia media indivisa.
482. **GLECHOMA.** *Cal.* 5-fidus. *Antherarum* singulum par in formam crucis connivens.

483. MARRUBIUM. *Cal.* hypocrateriformis, rigidus, 10-striatus. *Cor.* labium superius bifidum, lineare, rectum.
484. HYPTIS. *Cal.* 5-dentatus, crescens. *Cor.* ringens: labium superius bifidum, inferius tripartitum, lacinia media sacculiformi. *Stam.* tubi ventri inserta, declinata.
485. PYCNANTHEMUM. *Involucrum* multibracteatum, capitulis subjectum. *Cal.* tubulatus, striatus. *Cor.* labium superius subintegrum, inferius trifidum. *Stam.* subæqualia.
- \*\* *Calyces bilabiati.*
486. CLINOPODIUM. *Involucrum* multisetum, verticillo subjectum. *Cor.* labium superius planum, obcordatum, rectum.
487. ORIGANUM. *Strobilus* tetragonus, spicatus, calyces colligens. *Cor.* labium superius erectum, planum: inferius tripartitum: lacinii æqualibus.
488. DRACOCEPHALUM. *Cor.* faux inflata, labium superius concavum.
489. PRUNELLA. *Cor.* labium superius dilatatum. *Filam.* bifurca: altero apice antherifera. *Stigm.* bifidum.
490. SCUTELLARIA. *Cal.* ore integro, post florescentiam clauso, operculato. *Cor.* tubus elongatus.
491. THYMUS. *Cal.* campanulatus, faux villis clausa. *Cor.* labium superius planum, emarginatum.
492. CALAMINTHA. *Cal.* defloratus villis clausus. *Cor.* fauce inflata, labio superiore emarginato, inferiore tripartito: lacinia intermedia integra, subemarginata aut crenulata.
493. HEDEOMA. *Cal.* basi gibbus. *Cor.* ringens. *Stam.* 2. sterilia.
494. TRICHOSTEMA. *Cor.* labium superius falcatum. *Stam.* longissima.

## II. ANGIOSPERMIA.

\* *Calyces quinquefidi.*

495. LINNÆA. *Cal.* superus, duplex: fructus 2-phyllus; floris 5-partitus. *Cor.* campanulata. *Bacca* sicca, 3-locularis.
496. PHRYMA. *Cal.* cylindricus, supra longior, trifidus, infra bidentatus. *Cor.* labium superius emarginatum, inferius majus. *Sem.* unicum.

497. VERBENA. *Cal.* 5-fidus. *Cor.* infundibuliformis, tubo incurvo, limbo inæquali, 5-fido. *Sem.* 2—4.
498. ZAPANIA. *Flor.* capitati. *Cal.* 5-dentatus. *Cor.* 5-fida. *Stam.* 4. fertilia. *Stigm.* peltato-capitatum, obliquum. *Fructus* tectus utricularis, evanescens, nectens semina 2.
499. CAPRARIA. *Cal.* 5-partitus. *Cor.* campanulata, 5-fida, acuta. *Caps.* 2-valvis, 2-locularis, polysperma.
500. HERPESTIS. *Cal.* inæqualis, basi 2-bracteatus. *Cor.* tubulosa, subbilabiata. *Stam.* inclusa. *Caps.* 2-valvis, 2-locularis, dissepimento valvis parallelo.
501. LINDERNIA. *Cal.* 5-partitus, æqualis. *Cor.* ringens, labio superiore brevissimo, inferiore 3-fido, basi bicarinata. *Anther.* per paria cohærentes. *Stigm.* bilamellatum. *Caps.* 2-locularis, 2-valvis, dissepimento valvis parallelo.
502. SCROPHULARIA. *Cal.* 5-fidus. *Cor.* subglobosa, resupinata. *Caps.* 2-locularis.
503. BIGNONIA. *Cal.* 5-fidus, cyathiformis. *Cor.* fauce campanulata, 5-fida, subtus ventricosa. *Siliqua* 2-locularis. *Sem.* membranaceo-alata.
504. RUELLIA. *Cal.* 5-partitus. *Cor.* subcampanulata, limbo 5-fido. *Stam.* conjugata. *Caps.* utrinque attenuata, dentibus elasticè dehiscens. *Sem.* pauca.
505. BUCHNERA. *Cal.* 5-dentatus. *Cor.* limbus 5-fidus, æqualis: lobis cordatis. *Caps.* 2-locularis.
506. ANTIRRHINUM. *Cal.* 5-phyllus. *Cor.* calcarata, ringens: rictu clauso palato prominente. *Caps.* 2-locularis, 2-valvis.
507. GERARDIA. *Cal.* 5-fidus. *Cor.* 2-labiata: labio inferiore 3-partito: lobis emarginatis: medio bipartito. *Caps.* 2-locularis, dehiscens.
508. PEDICULARIS. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* 2-locularis, mucronata, obliqua. *Sem.* tunicata.
509. MIMULUS. *Cal.* prismaticus, 5-dentatus. *Cor.* ringens: labio superiore lateribus replicato. *Stigm.* crassum. *Caps.* 2-locularis, polysperma.
510. CHELONE. *Cal.* 5-partitus, 3-bracteatus. *Cor.* ringens, ventricosa. *Filam.* quintum sterile, cæteris brevius. *Caps.* 2-locularis, 2-valvis. *Sem.* plurima, margine membranacea.
511. PENTSTEMON. *Cal.* 5-phyllus. *Cor.* 2-labiata, ventricosa. *Filam.* quintum sterile, cæteris longius, superne barbatum. *Caps.* compressa, 2-locularis, 2-valvis. *Sem.* numerosa, subglobosa.

512. MARTYNIA. *Cal.* 5-fidus. *Cor.* ringens. *Caps.* lignosa, corticata, rostro hamato, 4-locularis, 2-valvis.

\*\* *Calyces quadrifidi.*

513. SCHWALBEA. *Cal.* ventricosus-tubulosus, 4-fidus: lacinia superiore minima, infima maxima, emarginata. *Cor.* ringens. *Caps.* 2-locularis, 2-valvis: dissepimento duplicato. *Sem.* paleacea.

514. RHINANTHUS. *Cal.* ventricosus, 4-fidus. *Cor.* ringens: labio superiore compresso. *Caps.* 2-locularis, compressa, obtusa.

515. BARTSIA. *Cal.* 2-lobus, emarginatus, coloratus. *Cor.* minus ipso calyce: labio superiore longiore. *Caps.* 2-locularis. *Sem.* angulata.

516. EUPHRASIA. *Cal.* cylindricus, 4-fidus. *Cor.* bilabiata: labium superius 2-fidum, inferius 3-lobum: lacinis bifidis. *Anth.* inferiores lobis spinosis.

517. MELAMPYRUM. *Cal.* 4-fidus. *Cor.* labium superius compressum, margine replicato. *Caps.* 2-locularis, obliqua, hinc dehiscens. *Sem.* 2. gibba.

\*\*\* *Calyces bifidi.*

518. OBOLARIA. *Cor.* campanulata, 4-fida. *Stam.* ex divisuris corollae. *Caps.* 1-locularis, 2-valvis, polysperma.

519. OROBANCHE. *Cor.* ringens. *Caps.* 1-locularis, 2-valvis, polysperma. *Glandula* sub basi germinis.

## I. GYMNOSPERMIA.

### 471. AJUGA. *Gen. pl.* 959.

*Chamaepithys.*

1. *A. foliis trifidis, floribus axillaribus solitariis folio brevioribus, caule diffuso. Willd. sp. pl.* 3. p. 10.

*Teucrium Chamaepithys. Sp. pl.* 787.

*Icon. Fl. dan.* 733. *Riv. t.* 24.

In sandy fields of Virginia. *Gronov.* ☉. June, July.

v. s. in *Herb. Gronov.* Flowers pale yellow.

472. TEUCRIUM. *Gen. pl.* 960.

1. *T. cano-hirsutissimum*; foliis ovato-lanceolatis serratis, omnibus petiolatis, caule erecto, spicis verticillatis confertis, bracteis calyce duplo longioribus.—*Willd. sp. pl.* 3. p. 22.

*canadense.*

In low grounds, on the borders of ponds and lakes: Canada to New York. *¶*. July, Aug. *v. v.* Flowers purple.

2. *T. pubescens*; foliis ovato-oblongis serratis, superioribus subsessilibus, caule erecto, spicis verticillatis confertis, bracteis longitudine calycis.—*Willd. sp. pl.* 3. p. 22.

*virginicum.*

Icon. *Schkuhr handb.* 160.

In low grounds and bogs: New York to Carolina. *¶*. June—Aug. *v. v.* Resembles the foregoing species very much.

473. MENTHA. *Gen. pl.* 967.

1. *M. floribus verticillatis, foliis lanceolatis serratis petiolatis pilosis, staminibus corollam æquantibus.* *Willd. sp. pl.* 3. p. 82.

*canadensis.*

In Canada. *Kalm.* *¶*. +.

2. *M. assurgens, pubescens*; foliis petiolatis ovali-lanceolatis utrinque acutissimis, floribus verticillatis, staminibus exsertis.—*Mich. fl. amer.* 2. p. 2.

*borealis.*

On the banks of rivers and near springs: Canada to Pennsylvania. *¶*. July, Aug. *v. v.* Flowers pale purple.

3. *M. erecta, glabriuscula*; foliis lanceolato-ovatis subsessilibus, spica gracili, verticillis minimis interrupta, staminibus non exsertis.—*Mich. fl. amer.* 2. p. 2.

*tenuis.*

*M. viridis.* *Walt. fl. car.* 161.

In wet places, near springs: Pennsylvania to Georgia. *¶*. June—Aug. *v. v.* Flowers white.

474. ISANTHUS. *Mich. fl. amer.* 2. p. 3.

1. *I. viscido-pubescens*; foliis ovali-lanceolatis utrinque acutis 3-nerviis, pedunculis 1-2-floris. *Mich. fl. amer.* 2. p. 4.

*cæruleus.*

Icon. *Mich. fl. amer.* 2. t. 30.

On dry hills, in lime-stone soil: Virginia and Kentucky. *○*. July, Aug. *v. v.* Flowers pale blue.

475. CUNILA. *Gen. pl.* 46.*mariana.*

1. *C. foliis ovatis serratis sessilibus, corymbis terminalibus dichotomis.*—*Willd. sp. pl.* 1. p. 122.  
*Icon. Pluk. mant. t. 344. f. 1.*  
 On dry shady hills: New York to Carolina. *℥*. June, July. *v. v.* Flowers red. The whole herb has an aromatic scent, and is used as tea in severe colds and other complaints, under the name of *Dittany*.

476. HYSSOPUS. *Gen. pl.* 963.*nepetoides.*

1. *H. spicis verticillatis cylindricis, stylis corolla brevioribus, foliis subcordatis ovatis acuminatis acute dentatis.*—*Willd. sp. pl.* 3. p. 48.  
*Icon. Jacq. hort. 1. t. 69. Pluk. alm. t. 150. f. 3.*  
 In fertile shady woods, along hedges: Pennsylvania to Virginia. *℥*. July, Aug. *v. v.* From three to five feet high; flowers in long close spikes, yellowish.

*scrophularifolius.*

2. *H. spicis verticillatis cylindricis, stylis corolla longioribus, foliis cordatis ovatis acuminatis obtuse dentatis.*—*Willd. sp. pl.* 3. p. 48.  
*Agastache. Gronov. fl. virg. 88.*  
*Icon. Herm. parad. t. 106.*  
 In wet copses and on the banks of rivers: Pennsylvania to Virginia; rare. *℥*. July, Aug. *v. v.* Seldom above two feet high; flowers purple.

477. NEPETA. *Gen. pl.* 964.*Cataria.*

1. *N. floribus spicatis, verticillis subpedicellatis, foliis petiolatis cordatis dentato-serratis.* *Willd. sp. pl.* 3. p. 49.  
*Icon. Fl. dan. 580. Schkuhr handb. 157.*  
 On road sides and in cultivated grounds: frequent. *℥*. July, Aug. *v. v.* Flowers white. Common *Cat-nep*, so well known as a domestic medicine, has probably been introduced from Europe.

478. LAMIUM. *Gen. pl.* 971.*amplexicaule.*

1. *L. foliis floralibus sessilibus amplexicaulibus obtusis.* *Willd. sp. pl.* 3. p. 90.  
*Pollichia amplexicaulis. Roth germ. 1. p. 254.*  
*Icon. Fl. dan. 752. Schkuhr handb. 159.*

In c  
 ©  
 2. L. c  
 be  
 In sh  
 lan  
 1. G. in  
 m  
 lyo  
 p.  
 Icon  
 On r  
 Ju  
 1. S. gl  
 lan  
 ris  
 S. pa  
 In Ca  
 2. S. ca  
 tio  
 lis  
 M  
 S. ter  
 S. aru  
 In lo  
 Vi  
 lus  
 3. S. ca  
 obl  
 cit  
 Galeo  
 In ol  
 Ju  
 ha  
 wi  
 sel  
 4. S. er  
 pre  
 sul  
 VOL. II.

In cultivated grounds, common; probably introduced.  
 O. May—Aug. *v. v.* Flowers purple.

2. *L. caule hispido, foliis longe petiolatis lato-cordatis pubescentibus, axillis unifloris.*—*Mich. fl. amer.* 2. p. 4.  
 In shady woods of Tennessee. *Michaux.* +. Flowers large, white.

*hispidulum.*

479. GALEOPSIS. *Gen. pl.* 972.

1. *G. internodiis caulinis superne incrassatis, verticillis summis subcontiguis, calycibus pungentibus, corollis calyce parum longioribus, caule hirsuto.* *Willd. sp. pl.* 3. p. 92.

*Tetralix.*

Icon. *Engl. bot.* 207.

On road sides, in the western parts of Pennsylvania. O.  
 July, Aug. *v. v.* Flowers white, with purple spots.

480. STACHYS. *Gen. pl.* 974.

1. *S. glabriuscula, gracilis, erecta; foliis sessilibus lineari-lanceolatis rariter subdentatis, verticillis subquadrifloris.*—*Mich. fl. amer.* 2. p. 4.  
*S. palustris. Walt. fl. car.* 162.  
 In Carolina. *Michaux.* +.

*hyssoifolia.*

2. *S. caulibus erectis, retrorsum hispidissimis, foliis subpetiolatis lanceolatis acute serratis glaberrimis, verticillis subsexfloris, calycibus divaricato-spinescentibus.*—*Mich. fl. amer.* 2. p. 5.

*aspera.*

*S. tenuifolia. Willd. sp. pl.* 3. p. 100.

*S. arvensis. Walt. fl. car.* 162.

In low fields and on the banks of rivers: New York to Virginia. *W.* June—Aug. *v. v.* Resembles *S. palustris*; flowers purple.

3. *S. caule foliisque hispido-pilosis; foliis petiolatis ovato-oblongis obtuse-serratis, verticillis subsexfloris, calycibus glabriusculis.*

*hispida.*

*Galeopsis floris galea rubente, &c. Gron. fl. virg. n.* 271.

In old fields and low pastures: Virginia to Carolina. *W.* July. *v. v.* Flowers purple. Gronovius's synonym has been placed under *S. annua*, from which it is widely different, as his specimen in the Banksian Museum sufficiently demonstrates.

4. *S. erecta, pubescens; foliis cordato-ovatis dentatis, supra glabris subtus albicantibus tomentosis, verticillis subsexfloris.*

*Feniculum.*

On the banks of the Missouri. ☉. July. *v. s.* Flowers blue. The whole of this plant has a scent extremely like that of fennel.

481. LEONURUS. *Gen. pl.* 977.*Cardiaca.*

1. *L. foliis cuneiformi-ovatis trilobis dentatis, corollis calyce pungente majoribus, lacinia media labii inferioris acuta.* *Willd. sp. pl.* 3. p. 114.

*Icon. Fl. dan.* 727. *Engl. bot.* 286.

In old fields and hedges: Pennsylvania to Virginia; probably introduced from Europe. ♀. July, Aug. *v. v.* Flowers white, mixed with red.

482. GLECHOMA. *Gen. pl.* 970.*hederacea.*

1. *G. foliis reniformibus crenatis.* *Willd. sp. pl.* 3. p. 85.

*Icon. Fl. dan.* 789. *Curt. lond.* 2. t. 44.

In orchards and on grassy hills: Pennsylvania to Virginia. ♀. May, June. *v. v.* Flowers handsome, blue.

483. MARRUBIUM. *Gen. pl.* 976.*vulgare.*

1. *M. foliis subrotundo-ovatis dentatis rugoso-venosis, calicibus dentibus setaceis uncinatis.* *Willd. sp. pl.* 3.

*Icon. Fl. dan.* 1036. *Engl. bot.* 410.

On road sides; frequent. ♀. July, Aug. *v. v.* Flowers small, white.

484. HYPTIS. *Gen. pl.* 969.*capitata.*

1. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero brevioribus, foliis oblongis utrinque attenuatis inæqualiter serratis.*—*Willd. sp. pl.* 3. p. 84. *Poiteau in annal. du mus.* 7. p. 464.

*Clinopodium capitatum.* *Swartz, prodr.* 88.

*Icon. Jacq. ic. rar.* t. 114. *Annal. du mus.* 7. t. 27. f. 1. In Lower Carolina. *Michaux.* ♀. July, Aug. *v. v.* Flowers white.

*radiata.*

2. *H. capitulis oppositis, pedunculo internodiis longitudine, bracteis lanceolatis calyce frugifero longioribus, foliis oblongis serratis.*—*Willd. sp. pl.* 3. p. 84. *Poiteau in annal. du mus.* 7. p. 466.

*Clinopodium rugosum* Sp. pl. 822.  
Icon. Dill. elth. t. 75. f. 86. Annal. du mus. 7. t. 27.  
f. 2  
In Lower Carolina. 24. +.

485. PYCNANTHEMUM. Mich. fl. amer. 2. p. 7.  
Brachystemum. Mich. fl. amer. 2. p. 5.

\* *Staminibus exertis.*

1. P. foliis oblongo-ovatis acutis subserratis cano-tomentosis, capitulis compositis, lateralibus pedunculatis, bracteis setaceis.—Mich. fl. amer. 2. p. 7.  
*incanum.*  
*Clinopodium incanum.* Willd. sp. pl. 3. p. 132.  
Icon. Dill. elth. t. 74. f. 85. Pluk. mant. t. 344. f. 7.  
In low fields and copses: New York to Carolina. 24.  
July—Oct. v. v. About three feet high; flowers white, tinged with red.
2. P. foliis lanceolato-ovatis subserratis brevissime petiolatis subeandicantibus, capitulis sessilibus, bracteis aristatis.—Mich. fl. amer. 2. p. 8.  
*aristatum.*  
*Nepeta virginica.* Willd. sp. pl. 3. p. 56.  
Icon. Mich. fl. amer. 2. t. 33. Pluk. alm. t. 85. f. 2.  
In dry woods, in lime-stone soil: Maryland to Carolina.  
24. July, Aug. v. v. Flowers white, very small.
3. P. foliis ovali-lanceolatis serratis subsessilibus, capitulo sessili, calycibus approximatis erectis breviter dentatis.  
*montanum.*  
Mich. fl. amer. 2. p. 8.  
On high mountains of Carolina. Michaux. 24. +.  
Stem and leaves tinged with purple.
4. P. hirsutum; foliis abrupte petiolatis subcordato-ovalibus serratis, bracteis magnis coloratis, bracteoliis ciliatis, calycibus summitate barbatis.—Mich. fl. amer. 2. p. 8.  
*Monardella.*  
*Origanum incanum.* Walt. fl. car. 165.  
Icon. Mich. fl. amer. 2. t. 34.  
On the mountains of Virginia and Carolina. 24. June  
—Aug. v. v. Flowers small, pale red.
5. P. caule stricto ramosissimo asperiusculo, foliis linearibus 3-nerviis integerrimis, capitulis terminalibus fasciculato-corymbosis.  
*linifolium.*  
*Brachystemum virginicum.* Mich. fl. amer. 2. p. 6.  
*Brachystemum linifolium.* Willd. enum. 623.  
*Thymus virginicus.* Willd. sp. pl. 3. p. 145.

*Satureja virginiana*. *Sp. pl.* 2. p. 793.

*Origanum flexuosum*. *Walt. fl. car.* 165.

*Icon. Herm. parad. t.* 218. *Pluk. alm. t.* 54. f. 2.

In dry swamps and mountain meadows: New England to Carolina.  $\mathcal{U}$ . July, Aug. *v. v.* Flowers very small, entirely white. This and the following species approach so near to the genus *Westringia*, that they almost ought to be added to that genus.

**\*\* *Staminibus inclusis.***

*lanceolatum*. 6. *P. caule stricto ramosissimo asperiusculo, foliis lineari-lanceolatis venosis integerrimis, capitulis terminalibus fasciculato-corymbosis.*

*Brachystemum lanceolatum*. *Willd. enum.* 623.

In dry swamps and on the banks of rivers: Pennsylvania to Virginia.  $\mathcal{U}$ . July, Aug. *v. v.* Resembles the foregoing species very much; flowers white; the lower lip of the corolla has purple dots.

*muticum*. 7: *P. foliis ovato-lanceolatis subdentatis glabriusculis, capitulis terminalibus, bracteis lanceolatis acutiusculis.*—*Pers. syn.* 2. p. 128.

*Brachystemum muticum*. *Mich. fl. amer.* 2. p. 6.

*Icon. Mich. fl. amer.* 2. t. 32.

In Upper Carolina. *Michaux.*  $\mathcal{U}$ . +.

*verticillatum*. 8. *P. foliis ovato-lanceolatis integerrimis, verticillis sessilibus compactis, bracteis acuminatis.*—*Pers. syn.* 2. p. 128.

*Brachystemum verticillatum*. *Mich. fl. amer.* 2. p. 6.

*Origanum clinopodioides*. *Walt. fl. car.* 165.

*Icon. Mich. fl. amer.* 2. t. 31.

In the mountains: Pennsylvania to Carolina.  $\mathcal{U}$ . July, Aug. *v. v.*

**486. CLINOPODIUM. *Gen. pl.* 980.**

*vulgare*. 1. *C. capitulis verticillatis, bracteis setaceis hispidis, foliis superne pilosis remote dentatis, caule subsimplici.* *Willd. sp. pl.* 3. p. 131.

*Icon. Fl. dan.* 930. *Engl. bot.* 1401.

In dry stony fields and woods: Canada to Virginia.  $\mathcal{U}$ . July, Aug. Flowers pale purple or rose-coloured.

487. ORIGANUM. *Gen. pl.* 981.

1. *O. spicis subrotundis paniculatis conglomeratis, bracteis calyce longioribus ovatis.* *Willd. sp. pl.* 3. p. 135.

Icon. *Fl. dan.* 638.

In dry stony fields and woods: Pennsylvania to Virginia.

July, Aug. *v. v.* Flowers pale red.

*vulgare.*

488. DRACOCEPHALUM. *Gen. pl.* 984.

1. *D. spicis brevibus tetragonis, bracteis ovatis acutis, calycis dentibus inæqualibus, foliis arcte sessilibus ovali-oblongis superne denticulatis.* *Vent. hort. cels t.* 44. cum icone.

*Prasium incarnatum.* *Walt. fl. car.* 165.

In Lower Carolina. July, Aug. Sept. *v. v.* Flowers blueish-red, with white stripes, very ornamental.

2. *D. spicis elongatis confertifloris, bracteis subulatis, calycis dentibus brevibus subæqualibus, foliis linearilanceolatis serratis.*—*Willd. sp. pl.* 3. p. 149.

Icon. *Bot. mag.* 467. *Rob. ic.* 207.

In mountain meadows: Virginia and Carolina. July—Sept. *v. v.* Flowers reddish-purple. There is a taller variety with dark purple flowers.

3. *D. spicis elongatis remotifloris, bracteis subulatis, calycis dentibus subæqualibus, foliis obovato-lanceolatis superne denticulatis.*—*Willd. sp. pl.* 3. p. 150.

*Prasium purpureum.* *Walt. fl. car.* 166.

Icon. *Bot. mag.* 214.

In the mountains of Virginia and Carolina. July—Sept. *v. v.* Resembles the former very much; it is always smaller in size, and weakly in stem.

*variegatum.*

*virginianum.*

*denticulatum.*

489. PRUNELLA. *Gen. pl.* 990.

1. *P. foliis petiolatis oblongo-ovatis basi dentatis, calycis labiis inæqualibus, superiore truncato aristato, caule adscendente.*—*Willd. sp. pl.* 3. p. 176.

Icon. *Fl. dan.* 910. *Engl. bot.* 961.

In fields and meadows: New England to Carolina. July, Aug. *v. v.* Flowers violet purple.

*vulgaris.*

2. *P. foliis petiolatis ovato-lanceolatis basi dentatis, calycis labiis æqualibus, superiore truncato triaristato, caule adscendente.* *Willd. hort. berol. p.* 9. t. 9.

*pennsylvanica.*

*P. laciniata*. *Walt. fl. car.* 163.

*P. sylvestris autumnalis*, &c. *Gron. fl. virg.* 91.

In woods and meadows: Pennsylvania to Carolina. ♂.  
July, Aug. *v. v.* Resembles the foregoing species;  
the spikes are longer, and the flowers pale blue.

#### 490. SCUTELLARIA. *Gen. pl.* 989.

##### *lateriflora*.

1. *S. ramosissima*, glabriuscula; foliis longissime petiolatis ovatis dentatis, caulinis subcordatis, racemis laterali-bus foliosis.—*Willd. sp. pl.* 3. p. 172.

On the side of ditches and ponds: Canada to Carolina.  
♂. July—Sept. *v. v.* Flowers blue, small.

##### *nervosa*.

2. *S. simpliciuscula*, glabra; foliis sessilibus ovatis dentatis nervosis, racemo terminali laxo folioso.

On the banks of rivulets: Virginia. ♂. July, Aug.  
*v. v.* Flowers, as the most of this genus, blue, larger  
than the foregoing species.

##### *galericulata*.

3. *S. simpliciuscula*, glabra; foliis subsessilibus ovato-lan-ceolatis basi subcordatis crenatis, floribus axillaribus solitariis.—*Willd. sp. pl.* 3. p. 173.

*Icon. Fl. dan.* 637. *Engl. bot.* 523.

In Canada and in the salt-marshes of Onondago, New  
York. ♂. July, Aug. *v. v.* Flowers large, pale  
blue.

##### *angustifolia*.

4. *S. simplex*, tenuissime pubescens; foliis linearibus, flo-ribus axillaribus oppositis, genitalibus subexsertis.

On the river Koskoosky. *M. Lewis*. ♂. June. *v. s.*  
*in Herb. Lewis*.

##### *parvula*.

5. *S. simplex*, pusilla, dense pubescens; foliis sessilibus ovatis integerrimis, omnibus conformibus, floribus ax-illaribus solitariis.—*Mich. fl. amer.* 2. p. 11.

In Canada and the Illinois country. *Michaux*. On banks  
of rivers in Virginia. *Ph.* ♂. June, July. *v. v.*  
Not above two inches high; flowers small, pale blue.

##### *caroliniana*.

6. *S. ramosa*, glaberrima; foliis petiolatis lineari-lanceolatis acutis integerrimis, racemis laxis foliosis, calycibus obtusis.—*Lam. encycl.* 7. p. 706.

*Icon. Lam. illustr. t.* 515. *f.* 3.

In Carolina. *Fraser*. ♂. +.

##### *integrifolia*.

7. *S. simpliciuscula*, dense pubescens; foliis subsessilibus oblongis linearibusve obtusis integerrimis basi attenua-tis, racemis laxiusculis foliosis.—*Willd. sp. pl.* 3. p. 173.

Icon. *Pluk. alm.* 441. f. 6.

8. *S. foliis omnibus linearibus.*—*Willd. sp. pl.* 3. p. 174. *hyssopifolia.*

On dry hills, in rich soil: New York to Carolina. *℥*.  
July—Sept. *v. v.* Flowers large, handsome blue. This species is very variable, in size and figure of leaves, simple and branched stems, &c.

9. *S. ramosa, elata, pubescens; foliis ovatis acuminatis serratis breviter petiolatis, racemis terminalibus laxiusculis plerumque paniculatis, bracteis lanceolatis brevibus.*—*Bot. rep.* 494. *serrata.*

*S. integrifolia. Auctorum.*

In fields and meadows: Virginia and Carolina. *℥*. July—Sept. *v. v.* The tallest species; flowers large and handsome.

9. *S. simpliciuscula, pubescens; foliis remotis rhomboideo-ovatis obtusis rotundato-crenatis basi attenuatis, petiolis brevibus, racemis terminalibus laxis plerumque ramosis, bracteis lanceolatis integris.*—*Mich. fl. amer.* 2. p. 11. *pilosa.*

*S. ovalifolia. Pers. syn.* 2. p. 136?

*S. caroliniana. Walt. fl. car.* 163.

Icon. *Pluk. alm. t.* 313. f. 4.

In shady woods: Virginia and Carolina. *℥*. July, Aug. *v. v.* Resembles the foregoing one; it is a smaller plant, with only a few leaves.

#### 491. THYMUS. *Gen. pl.* 982.

1. *T. floribus capitatis, caulibus repentibus, foliis planis obtusis basi ciliatis.* *Willd. sp. pl.* 3. p. 138. *Serpyllum.*

Icon. *Engl. bot.* 1514. *Schkuhr handb.* 144.

Common *Thyme* occurs frequently in an apparently wild state, particularly on the commons near Philadelphia.

*℥*. *h*. July, Aug. *v. v.* Flowers purple.

#### 492. CALAMINTHA. *Tourn. inst.* 193.

1. *C. pubescens, ramosissima; foliis ovatis obtusis subserratis, verticillis pedunculatis dichotomo-corymbosis folio longioribus, villis calycinis prominentibus.* *Nepeta.*

*Melissa Nepeta. Willd. sp. pl.* 3. p. 147.

*Thymus Nepeta. Smith fl. brit.* 2. p. 642.

Icon. *Engl. bot.* 1414. *Curt. lond.* 6. t. 40.

In lime-stone soil, on dry barren hills: Virginia. *W.*  
June, July. Flowers white, tinged with red.

*grandiflora.*

2. *C. erecto-cespitosa*; foliis rhomboideo-ovalibus superne obsolete dentatis glabriusculis, verticillis subpedunculatis subdecemfloris folio brevioribus, villis calycinis inclusis.

*Thymus grandiflorus. Bot. mag. 997.*

*Thymus carolinianus. Mich. fl. amer. 2. p. 9.*

*Thymbra caroliniana. Walt. fl. car. 162.*

On the banks of the river Savannah, in Georgia and Carolina. *W.* *h.* July, Aug. *v. v.* Flowers large, pale purple.

493. HEDEOMA. *Pers. syn. 2. p. 131.*

*glabra.*

1. *H. erecta, glabra*; foliis inferioribus oblongis, superioribus lanceolatis remote serratis, pedunculis terminalibus ternis.—*Pers. syn. 2. p. 131.*

*Cunila glabella. Mich. fl. amer. 1. p. 13.*

On rocks on the river Tennessee, near Nashville, *W.* +.

*pulegioides.*

2. *H. pubescens*; foliis oblongis serratis, pedunculis axillaribus verticillatis, calycis labio inferiore biseto, setis ciliatis.—*Pers. syn. 2. p. 131.*

*Cunila pulegioides. Willd. sp. pl. 1. p. 122.*

In fields and on dry hills: Canada to Carolina. ☉.  
June, July. *v. v.* A small plant; flowers small, pale blue.

*hispida.*

3. *H. ramosa, undique hispido-pilosa*; foliis linearibus nervosis margine revolutis integerrimis, verticillis subquadrifloris, calycibus hispidissimis laciniis subulatis.

On the banks of the Missouri. ☉. June, July. *v. s.*  
Not above two inches high; flowers very small.

494. TRICHOSTEMA. *Gen. pl. 988.*

*dichotoma.*

1. *T. foliis rhomboideo-lanceolatis, ramulis floriferis bifurcatis, staminibus longissimis.*—*Willd. sp. pl. 3. p. 170.*

*linearis.*

- β. *T. foliis linearibus. Walt. fl. car. 164.*

In fields and on sunny hills: Pennsylvania to Carolina. ☉. June—Aug. *v. v.* Flowers large, fine blue; the whole plant has an agreeable resinous scent.

2. *T. foliis ovato-lanceolatis, ramulis floriferis oppositis paniculatis, staminiibus brevibus inclusis.*—Willd. *sp. pl.* 3. p. 170.  
 Icon. *Dill. elth t.* 285. f. 369.  
 In Virginia. *Dillen.* ☉. *v. s. in Herb. Banks.* Flowers blue.

*brachiata.*

## II. ANGIOSPERMIA.

495. LINNÆA. *Gen. pl.* 1037.

1. *L. caule prostrato, ramulis floriferis erectis bifloris, foliis subrotundis antice crenatis.*—Willd. *sp. pl.* 3. p. 340.  
 Icon. *Fl. dan.* 3. *Engl. bot.* 433. *Fl. lapp. t.* 12. f. 4.  
 In old fir-woods of Canada and New England, and on the mountains of New York and Pennsylvania. Plentifully in the woods near Wiscasset, Province of Maine, and near the White Lake, on the mountains of New Jersey. *℥.* *h.* May, June. *v. v.* Flowers white, tinged with red. This interesting and handsome little plant will for ever be the admiration of the botanist, should it even be only for the sake of its name.

*borealis.*496. PHRYMA. *Gen. pl.* 994.

1. *P. foliis ovatis grosse serratis petiolatis, spicis terminalibus gracilibus, floribus oppositis.*—Willd. *sp. pl.* 3. p. 179.  
 Icon. *Pluk. amalth. t.* 380. f. 5. *Lam. illustr. t.* 516.  
 In shady, rocky woods: Canada to Carolina. *℥.* June—Aug. *v. v.* Flowers small, white with purple.—Walter in his *Flora Caroliniana* has another species which he calls *P. caroliniensis*, foliis sessilibus obovato-oblongis serratis scabris, spica terminali. Of this plant I was not able to find any information in his Herbarium, and strongly suspect he means *Salvia urticifolia* by it.

*Leptostachia.*497. VERBENA. *Gen. pl.* 43.\* *Foliis laciniatis.*

1. *V. assurgens; spicis solitariis pedunculatis imbricatis, corollarum laciniis emarginatis, foliis ovalibus incisoseratis petiolatis.*—Willd. *sp. pl.* 1. p. 119.

*Aubletia.*

- V. longiflora*. *Lam. illustr.* 1. p. 57.  
*Buchnera canadensis*. *Linn. mant.* 88.  
*Glandularia caroliniensis*. *Gmel. syst. nat.* 2. p. 920.  
*Anonymos caroliniensis*. *Walt. fl. car.* 164.  
*Icon. Jacq. hort.* 2. t. 176. *Rozier journ. d'hist. nat.* 1. t. 2.  
 In Carolina and Georgia. ♂. June, July. *v. v.* Flowers large, of a beautiful purple.
- bracteosa*. 2. *V. pumila*, decumbens, hirsutissima; foliis laciniatis, spica floribus subimbricata, bracteis linearibus longissimis et undique patentibus squarrosa. *Mich. fl. amer.* 2. p. 13.  
*Zapania bracteosa*. *Lam. encycl.* 8. p. 843.  
 In Illinois and Kentucky. ♀. July. *v. s.* in *Herb. Lyon*. Flowers light purple.
- spuria*. 3. *V. caule decumbente ramosissimo divaricato, foliis multifido-laciniatis, spicis filiformibus, bracteis calyces superantibus.*—*Willd. sp. pl.* 1. p. 119.  
 On slate-hills and lime-stone rocks: Illinois, Virginia and Kentucky. ♂. July, Aug. *v. v.* Flowers very small, blue.
- hastata*. 4. *V. erecta, elatior; foliis lanceolatis acuminatis inciso-serratis nonnullis inciso-hastatis, spicis linearibus paniculatis subimbricatis.*—*Willd. sp. pl.* 1. p. 118.  
*Icon. Herm. parad.* 242.
- pinnatifida*. β. *V. foliis inciso-pinnatifidis grosse serratis.* *Lam. illustr.* 1. p. 57.  
 On road sides, in wet soil, and on the banks of rivers: Canada to Carolina. ♀. July, Aug. *v. v.* From two to five feet high; flowers purple, sometimes white.
- \*\* *Foliis integris.*
- paniculata*. 5. *V. erecta, scabriuscula; foliis lanceolatis grosse serratis indivisis, spicis filiformibus imbricatis corymboso-paniculatis.*—*Lam. encycl.* 8. p. 548.  
 On the natural meadows of the high mountains of Virginia and Carolina. ♀. July, Aug. *v. v.* From four to six feet high; flowers very numerous, purple.
- urticifolia*. 6. *V. erecta, subpubescens; foliis ovatis acutis serratis petiolatis, spicis filiformibus distinctifloris axillaribus terminalibusque.*—*Willd. sp. pl.* 1. p. 119.  
*Icon. Riv. monop.* 57. *Rob. ic.* 26.  
 On road sides and cultivated grounds: New England to

Car  
sm  
7. V. er  
sub  
val  
In N  
ver  
nea  
9. V.  
nu  
bus  
633  
V. am  
In dr  
Per  
No  
9. V. er  
eq  
lon  
p.  
Icon.  
In dr  
Ju  
10. V. h  
lib  
sp  
63  
V. ri  
In C  
v.  
1. Z. f  
pi  
h  
Ver  
Lip  
Blai  
Icon  
On  
o  
st  
2. Z.

Carolina.  $\mathcal{U}$ . June—Sept. *v. v.* Flowers very small, white.

7. *V. erecta*, ramosissima; foliis ovato-lanceolatis serratis subpubescentibus, spicis longissimis laxis paniculatis valde diffusis.—*Lam. encycl.* 8. p. 550.

*diffusa.*

In North America. *Lamarch.*  $\mathcal{U}$ .  $\frac{1}{2}$ . +. Flowers very small, somewhat purple. This species has a very near resemblance to the foregoing.

8. *V. humilis*, erecta; foliis lineari-lanceolatis basi attenuatis rariter serratis lineato-venosis, spicis filiformibus solitariis terminalibus axillaribusve.—*Willd. enum.* 633.

*rugosa.*

*V. angustifolia.* *Mich. fl. amer.* 2. p. 14.

In dry soil, on road sides, particularly in lime-stone soil: Pennsylvania to Tennessee.  $\mathcal{U}$ . June—Aug. *v. v.* Not above a foot high; flowers fine blue.

9. *V. erecta*, scabra; foliis oblongo-obovalibus obtusis inæqualiter serratis basi attenuatis subsessilibus, spicis longissimis filiformibus distinctifloris.—*Willd. sp. pl.* 1. p. 119.

*caroliniana.*

Icon. *Dill. elth.* t. 301. f. 388.

In dry sandy fields: Carolina to Georgia.  $\mathcal{U}$ . June, July. *v. s.* Flowers pale red.

10. *V. hirsuta*, albicans; caulibus rigide erectis, foliis sessilibus obovalibus serratis subtomentoso-hirsutissimis, spicis strictis imbricatis subfasciculatis.—*Willd. enum.* 633. *Vent. hort. cels* p. 53. cum icone.

*stricta.*

*V. rigens.* *Mich. fl. amer.* 2. p. 14.

In Carolina and the Illinois country.  $\mathcal{U}$ . July, Aug. *v. s.* in *Herb. Lambert.*

#### 498. ZAPANIA. *Lam. illustr.* 1. p. 58.

1. *Z. foliis ovato-cuneiformibus superne serratis, spicis capitato-conicis solitariis elongato-pedunculatis, caule herbaceo repente.*—*Lam. illustr.* 1. p. 59.

*nodiflora.*

*Verbena nodiflora.* *Willd. sp. pl.* 1. p. 117.

*Lippia nodiflora.* *Mich. fl. amer.* 2. p. 15.

*Blairia nodiflora.* *Gært. de fruct. et sem.* 1. p. 266. t. 56.

Icon. *Lam. illustr.* 1. t. 17. f. 3. *Rob. ic.* 30.

On the coast of Virginia and Carolina, and on the banks of the Ohio.  $\mathcal{U}$ . July, Aug. *v. v.* Flowers white, small.

2. *Z. foliis lineari-lanceolatis argute serratis, spicis capitato-*

*lanceolata.*

conicis solitariis elongato-pedunculatis, caule herbaceo repente. — *Pers. syn.* 2. p. 140.

*Lippia lanceolata. Mich. fl. amer.* 2. p. 15.

In Carolina and Georgia, on the banks of rivers.  $\mathcal{U}$ . July, Aug. v. v. Flowers white.

499. CAPRARIA. *Gen. pl.* 1030.

*multifida.*

1. *C. erecta*, viscido-pubescent; foliis superioribus terno-verticillatis multifidis, pedicellis solitariis. — *Mich. fl. amer.* 2. p. 22. t. 36.

On the banks of rivers, in the western parts of the settlements, particularly on the Missouri and Mississippi.  $\odot$ . July, Aug. v. s. Flowers small, greenish-white.

500. HERPESTIS. *Gert. carp.* 3. p. 187. t. 214.

Monniera. *Mich. fl. amer.* 2. p. 22.

*rotundifolia.*

1. *H. minutim pubescens*; foliis subovali-orbiculatis multinerviis, pedunculis passim oppositis folia subæquantibus.

Monniera *rotundifolia. Mich. fl. amer.* 2. p. 22.

On overflowed banks of rivers, in the Illinois and other western parts.  $\mathcal{U}$ . July, Aug. v. s. Flowers pale blue, small.

*amplexicaulis.*

2. *H. caulibus lanatis*, foliis breviter cordato-ovalibus amplexicaulibus integris obtusis, pedunculis folio brevioribus.

Monniera *amplexicaulis. Mich. fl. amer.* 2. p. 22.

In ponds and ditches: Carolina and Georgia.  $\mathcal{U}$ . June — Aug. v. v. Flowers blue, larger than the other species.

*cuneifolia.*

3. *H. glaberrima*; foliis cuneato-obovalibus superne obsolete subcrenatis, pedunculis folia subæquantibus.

Monniera *cuneifolia. Mich. fl. amer.* 2. p. 22.

On the overflowed banks of rivers, near the sea-shore: Pennsylvania to Carolina.  $\mathcal{U}$ . Aug. v. v. Leaves thick; flowers very small, pale blue.

*micrantha.*

4. *H. glabra*, succulenta; foliis arcte sessilibus ovalibus obtusis integerrimis striato-nervosis, pedunculis folio brevioribus, calyce 5-phylo, stylo bifido.

*Gratiola repens. Willd. sp. pl.* 1. p. 103?

Icon. *Swartz. ic.* t. 33.

On the banks of rivers, to the edge of low water mark : Pennsylvania to Virginia. ☉. July, Aug. v. v. Flowers very small, white. It approaches near to *Lindernia*.

## 501. LINDERNIA. Gen. pl. 1031.

1. *L. glaberrima*; foliis oblongo-ovatis obsolete dentatis sessilibus, pedunculis axillaribus unifloris, corollis calyce duplo longioribus, capsulis calyce brevioribus.—*Willd. sp. pl. 3. p. 323?*

*pyxidaria.*

*Gratiola inæqualis. Walt. fl. car. 61.*

*Gratiola angustifolia. Mich. fl. amer. 1. p. 6.*

*Gratiola floribus pedunculatis, foliis ovatis crenatis. Gron. fl. virg. 3.*

- β. *L. foliis repando-dentatis, pedunculis brevibus.*

*major.*

On the banks of ponds and rivers, in gravelly soil; New York to Virginia. ☉. July, Aug. v. v. Flowers blue. The European plant, figured by Schkahr and Krockner, seems to be a very different species from the present one, as the corolla is shorter than the calyx.

## 502. SCROPHULARIA. Gen. pl. 1014.

1. *S. foliis cordatis serratis acutis basi rotundatis, petiolis inferne ciliatis, paniculæ fasciculis laxè paucifloris.*—*Willd. sp. pl. 3. p. 269.*

*marylandica.*

*S. nodosa β. americana. Mich. fl. amer. 2. p. 21.*

In low grounds: Pennsylvania to Carolina. ♀. June—Aug. v. v. Flowers greenish-brown. The plant often more than four feet high.

2. *S. foliis lanceolatis inæqualiter serratis acuminatis basi acutis, petiolis nudis, paniculæ fasciculis corymbosis.* In wet meadows and woods: Pennsylvania. ♀. Aug. Sept. v. v. Flowers greenish-yellow.

*lanceolata.*

## 503. BIGNONIA. Gen. pl. 1018.

1. *B. foliis conjugatis cirrhosis, inferioribus ternatis, foliolis ovato-cordatis acuminatis, racemis axillaribus, caule muricato.* *Willd. sp. pl. 3. p. 296.*

*crucigera.*

*Icon. Plum. ic. t. 58.*

In shady woods: Carolina to Florida. ♀. June, July. v. v. Flowers yellowish-scarlet.

2. *B. foliis conjugatis cirrhosis, foliolis oblongis basi subcordatis, imis simplicibus.*—*Willd. sp. pl. 3. p. 297.*

*capreolata.*

Icon. *Bot. mag.* 864. *Jacq. hort. schænbr.* 363.  
In shady woods, on the banks of rivers and lakes: Virginia to Florida.  $\frac{1}{2}$ . July, Aug. *v. v.* Flowers scarlet.

*radicans.*

3. *B. foliis pinnatis, foliolis ovatis dentatis acuminatis, corymbo terminali, tubo corollæ calyce triplo longiore, caule radicante.*—*Willd. sp. pl.* 8. p. 301.

*Tecoma radicans. Juss.*

*flammea.*

- $\alpha$ . *B. floribus luteo-coccineis.*

Icon. *Schmidt arb. t.* 42.

*coccinea.*

- $\beta$ . *B. floribus coccineis.*

Icon. *Schmidt arb. t.* 43 & 44. *Bot. mag.* 485. *Catesb. car. 1. t.* 65.

On the banks of rivers: Pennsylvania to Florida.  $\frac{1}{2}$ . July, Aug. *v. v.* This highly ornamental creeper ascends the tallest trees and highest rocks, and with its large scarlet flowers produces one of the most pleasing effects in ornamental gardening.

#### 504. RUELLIA. *Gen. pl.* 1050.

*strepens.*

1. *R. erecta, hirsuta; foliis petiolatis lanceolato-ovatis integerrimis, pedunculis 1—3-floris, calycis laciniis lanceolatis hispidis tubo corollæ duplo brevioribus.*—*Willd. sp. pl.* 3. p. 363.

Icon. *Schkuhr handb.* 177. *Dill. elth. t.* 249. *f.* 321.

On dry hills, in shady woods: Virginia to Carolina.  $\frac{1}{2}$ . June, July. *v. v.* Flowers large, pale blue, as are all the following.

*oblongifolia.*

2. *R. assurgens, dense pubescens; foliis subsessilibus obovato-oblongis, floribus solitariis, bracteis longitudine calycis, calycis laciniis filiformibus longitudine tubi corollæ.*—*Mich. fl. amer.* 2. p. 23.

*R. biflora. Willd. sp. pl.* 3. p. 368?

In sandy pine-woods: Georgia.  $\frac{1}{2}$ . June, July. *v. s.* Flowers yellowish-blue.

*hybrida.*

3. *R. erecta, ramosissima, pilis albidis hirsuta; foliis subsessilibus oblongis utrinque subacutis dense hirsutis, bracteis calyce brevioribus, calycis laciniis linearibus tubo corollæ vix brevioribus.*

In sandy fields near Savannah, Georgia.  $\frac{1}{2}$ . July. *v. s.* in *Herb. Enslen.*

*ciliosa.*

4. *R. erecta, ramosa; foliis subsessilibus ovato-oblongis margine nervis venisque pilis albis longe ciliatis, brac-*

teis  
coro  
Near  
Ens

5. *R. glab  
gius  
libus  
In Geo*

1. *B. cau  
trine  
p. 3  
On dry  
July*

5

1. *A. pro  
rimi  
pl. 3*

Icon.  
In sar  
Aug

2. *A. ere  
bus  
bus  
p. 2*

Icon.  
In fiel  
—A  
look  
som

3. *A. as  
erec  
cem  
p. 2*

Icon.  
In low  
*v. t*

4. *A. pu  
acu  
bus*

teis lanceolatis brevibus, calycis laciniis subulatis tubo corollæ quadruplo brevioribus.

Near Savannah, Georgia. *¶*. July. *v. s. in Herb. Enslen.*

3. *R. glabriuscula*, diffusa, radicans; foliis in petiolum longiuscule angustatis ovalibus obtusis, floribus subsessilibus, capsulis linearibus. *Mich. fl. amer. 2. p. 23.*  
In Georgia and Florida. *Michaux. +.*

*humistrata.*

505. BUCHNERA. *Gen. pl. 1035.*

1. *B. caule simplici*, foliis lanceolatis subdentatis asperis trinervibus, spicis remotifloris.—*Willd. sp. pl. 3. p. 334.*  
On dry sandy hills: Pennsylvania to Carolina; rare. *¶*. July. *v. v.* Flowers deep blue.

*americana.*

506. ANTIRRHINUM. *Gen. pl. 1007.*

1. *A. procumbens*, pilosum; foliis alternis hastatis integerrimis, pedunculis solitariis longissimis.—*Willd. sp. pl. 3. p. 234.*

*Elatine.*

Icon. *Fl. dan. 426. Engl. bot. 692.*

In sandy fields: Pennsylvania to Virginia. *○*. July, Aug. *v. v.* Flowers yellow mixed with purple.

2. *A. erectum*, glabrum; foliis sparsis lanceolato-linearibus confertis, spicis terminalibus densifloris, calycibus glabris calcare brevioribus.—*Willd. sp. pl. 3. p. 253.*

*Linaria.*

Icon. *Fl. dan. 982. Engl. bot. 658.*

In fields and dry hills, near houses; frequent. *¶*. June—Aug. *v. v.* Flowers large, yellow. This fine-looking plant is one of the worst and most troublesome weeds in several parts of Pennsylvania and Virginia.

3. *A. assurgens*, glabrum, simplicissimum; foliis sparsis erectis angusto-linearibus obtusis remotis, floribus racemosis, stolonibus procumbentibus.—*Willd. sp. pl. 3. p. 255.*

*canadense.*

Icon. *Vent. hort. cels 49.*

In low grounds: Canada to Carolina. *○*. June—Aug. *v. v.* Flowers small, purple.

4. *A. pusillum*, simplex, glabrum; foliis oppositis linearibus acutis, floribus axillaribus brevi-pedunculatis, calycibus campanulatis.

*tenellum.*

On the banks of the Missouri. *M. Lewis*. ☉. July. *v. v.*; *v. s.* in *Herb. Lewis*. Flowers bright blue, large in proportion to the size of the plant.

*Crontium*.

5. *A. erectum*, ramosum, pubescens; foliis alternis lanceolatis, floribus subspicatis, calycibus digitatis corolla longioribus, corollis ecaudatis.—*Willd. sp. pl.* 3. p. 258.

Icon. *Curt. fl. lond.* 4. t. 45. *Riv. t.* 82.

In fields: Virginia; rare. ☉. July, Aug. *v. v.* Flowers pale purple.

507. GERARDIA. *Gen. pl.* 1004.\* *Flores purpurei.**purpurea*.

1. *G. caule* opposite ramosissimo, foliis linearibus, floribus axillaribus oppositis subsessilibus.—*Willd. sp. pl.* 3. p. 221.

Icon. *Pluk. mant.* t. 388. f. 1.

*crassifolia*.

- β. *G. foliis* carnosis brevioribus.

In fields and woods: New England to Carolina. β. In salt-marshes, near New York, &c. ♂. July, Aug. *v. v.*

*tenuifolia*.

2. *G. paniculato-ramosa*; foliis linearibus, pedunculis axillaribus oppositis flore longioribus.—*Willd. sp. pl.* 3. p. 222.

*G. erecta*. *Walt. fl. car.* 170. *Mich. fl. amer.* 2. p. 20.

Icon. *Pluk. alm.* t. 12. f. 4.

In fields and woods: Pennsylvania to Carolina. ♂. July, Aug. *v. v.*

*setacea*.

3. *G. caule* ramosissimo, foliis setaceis, ramulis axillaribus folio longioribus plerumque unifloris.—*Walt. fl. car.* 170.

In sandy fields: Pennsylvania to Virginia. ☉. Aug. *v. v.* Resembles the foregoing one; but the flowers are not axillary but terminal, very seldom two on a branch.

*auriculata*.

4. *G. subsimplex*, tota aspera; foliis ovato-lanceolatis basi 2-auriculatis integerrimis, floribus axillaribus oppositis foliisque arcte sessilibus.—*Mich. fl. amer.* 2. p. 20.

In dry stony fields: Virginia and Illinois. ☉. July, Aug. *v. v.* Not above eight inches high, without branches.

*cuneifolia*.

5. *G. paniculato-ramosa*; ramis erectis, foliis cuneato-lanceolatis inæqualiter serratis superioribus alternis,

maurum.

fl. ☉. July.  
s bright blue,  
ant.

s alternis lan-  
s digitatis co-  
Willd. sp. pl. 3.

v. v. Flowers

4.

ribus, floribus  
Willd. sp. pl. 3.

Carolina. ♂. In  
f. July, Aug.

pedunculis ax-  
Willd. sp. pl. 3.

mer. 2, p. 20.

ina. ♂. July,

ulis axillaribus  
-Walt. fl. car.

☉. Aug. v. v.  
flowers are not  
on a branch.

anceolatis basi  
illaribus oppo-  
fl. amer. 2.

☉. July, Aug.  
hout branches.

foliis cuneato-  
ribus alternis,



*Gerardia palucosa.*





*Gerardia quercifolia*

Drawn by F. C.

pe  
pa  
In G  
6. G. ra  
su  
bra  
In gr  
mo  
Le  
Frute  
der  
cia  
cur  
pet  
ce  
opp  
pur  
inte  
fun  
latis  
Cor  
trico  
cini  
coro  
lus

7. G. pub  
lanc  
pinn  
sessi  
Icon.  
In dry  
da.  
all t  
two  
8. G. gla  
lacin  
dent  
bus  
Rhinac  
Icon.  
On the  
to C  
five

pedunculis axillaribus folio longioribus, calycibus 5-partitis.

In Georgia. *Bartram. v. s. in Herb. Banks.*

6. *G. ramosissima*; foliis lanceolatis serratis basi attenuatis subpetiolatis, racemis terminalibus, floribus oppositis bracteatis.

*fruticosa.*

In great abundance in the pine-forests of the Rocky-mountains. *M. Lewis. h. June. v. s. in Herb. Lewis.*

*Frutex* elegans 3-4-pedalis ramosissimus. *Rami* teretes, dense foliosi, tenuissime pubescentes. *Folia* semuncialia, opposita, lanceolata, acuta, interdum obtusa cum mucrone, superne acute serrata, inferne quasi in petiolum attenuata, integerrima, utrinque glabra. *Racemi* terminales, simplices, erecti, bracteati. *Flores* oppositi, pedicellati, magnitudine et colore *Digitalis purpurei*. *Bractea* oppositæ, sessiles, oblongæ, acutæ, integerrimæ, pedicellis vix breviores. *Calyx* profunde 5-partitus, basi unibracteolatus: laciniis lanceolatis, acutis. *Bracteolæ* lineares, calyce breviores. *Corollæ*: *Tubus* calyce quadruplo longior, superne ventricosus. *Limbus* patens, subæqualis, 5-fidus: *Laciniis* rotundatis. *Filamenta* tubo duplo breviora, imo corollæ inserta. *Antheræ* oblongæ, hirsutissimæ. *Stylus* longitudine tubi. *Capsula*, . . . .

\*\* *Flores flavi.*

7. *G. pubescens*; caulibus subsimplicibus, foliis subsessilibus lanceolatis integerrimis vel dentatis, inferioribus subpinnatifido-incisis, floribus axillaribus oppositis subsessilibus. — *Willd. sp. pl. 3. p. 223.*

*flava.*

Icon. *Pluk. mant. t. 389. f. 3.*

In dry shady and rocky woods: New England to Florida. *fl.* July—Sept. *v. v.* Flowers large, and, as all the following, yellow. It is seldom more than two feet high.

8. *G. glabra*; caule paniculato, foliis petiolatis pinnatifidis: laciniis lanceolatis acutis integris vel postice incisedentatis, summis lanceolatis integris, floribus axillaribus oppositis pedicellatis.

*quercifolia.*

*Rhinanthus virginicus. Willd. sp. pl. 3. p. 191.*

Icon. *Pluk. alm. t. 389. f. 1.*

On the banks of rivers, in rich shady places: Pennsylvania to Carolina. *fl.* July, Aug. *v. v.* From three to five feet high. This fine species has been generally

confounded with the foregoing one, but differs widely from it. The stem is smooth, purple, with a blue dew over it, and very much branched. The flowers are nearly the size, shape, and colour of the preceding species. The original specimen of Gronovius of *Rhinanthus virginicus*, in the Banksian Museum, is evidently our present plant.

- Pedicularia*. 9. *G. pubescens*, brachiatis-paniculata; foliis oblongis duplicato-inciso-serratis pinnatifidisque, floribus axillaribus oppositis pedicellatis, calycis laciniis foliaceis inciso-dentatis.—*Willd. sp. pl.* 3. p. 223.

Icon. *Lam. illustr. t.* 529. f. 2.

In dry shady woods: New York to Carolina. ♂. June—Aug. v. v. A very handsome species, of which there are several very striking varieties.

- cassioioides*. 10. *G. virgatim-paniculata*, foliis setaceo-pinnatifidis: laciniis linearibus.

*G. Afzelia. Mich. fl. amer.* 2. p. 20.

*Afzelia cassioioides. Gmel. syst. nat.* 927.

*Anonymous cassioioides. Wall. fl. car.* 171.

In dry sandy woods of Carolina and Georgia. ☉. July, Aug. v. s. Flowers small, yellow.

#### 508. PEDICULARIS. *Gen. pl.* 1003.

- euphrasioides*. 1. *P. caule ramoso pubescente, foliis pinnatifidis dentatis, calycibus tubulosis bipartitis truncatis, corollæ galea bidentata. Willd. sp. pl.* 3. p. 204.

Icon. *Houttuyn. linn. syst.* 8. t. 57.

In Labrador. *Colmaster. ♀. v. s. in Herb. Dickson.* Flowers yellow; from six to eight inches high.

- pallida*. 2. *P. caule ramoso elato glabro, foliis suboppositis lanceolatis crenatis dentatis, apica aphylla glabra, corollæ galea obtusa, calyce bifido rotundato.—Herb. Banks.*

*P. virginica. Lam. encycl.* 5. p. 126.

In swamps, on lime-stone soil: Virginia. *Lamarck.* In a swamp near King's-bridge, New York. *Ph.* ♀. July, Aug. v. v.; v. s. in *Herb. Banks.* Flowers yellow; grows upwards of three feet high. I considered this species to be the *Rhinanthus virginicus*, which Linnaeus had adopted from Gronovius's *Flora Virginica*; but on examining the Gronovian Herbarium in the Banksian Museum, I found his *Rhinanthus* to be the *Gerardia quercifolia*.

- lanceolata*. 3. *P. caule simpliciter, foliis lanceolatis inciso-dentatis, apica*

aphylla, calycibus glabris, capsulis brevibus. *Mich. fl. amer. 2. p. 18.*

In the Illinois country. *Michaux. N.*

4. *P. caule simplici, foliis lanceolatis pinnatifidis dentatis, spica foliosa alterniflora hirsuta, capsulis in mucronem gladiatum exertum protractis.*—*Mich. fl. amer. 3. p. 18.* *gladiata.*

In rich soil, in grassy moist places: Pennsylvania to Virginia. *N.* May, June. *v. v.* Flowers yellow, tinged with purple; sometimes a foot high.

5. *P. caule simplici, foliis pinnatifidis inciso-dentatis, capitulo basi folioso hirsuto, corollis galea setaceo-bidentata, calycibus deorsum truncatis.*—*Willd. sp. pl. 3. p. 211.* *canadensis.*

In woods and meadows: Canada to Carolina. *N.* May—July. *v. v.* About a span high; flowers yellowish-white, with a tinge of purple.

6. *P. caule simplici glabro, foliis lanceolatis dentatis crenatis, calycibus bifidis truncatis, corollæ galea acuta.* *Willd. sp. pl. 3. p. 200.* *resupinata.*

Icon. *Gmel. fl. sib. 3. t. 44.*

In Canada. *N.* July. *v. s.* About a foot high; flowers deep purple.

7. *P. caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis pinnatifidis dentatis, spica compacta foliosa, calycibus glabris quinquedentatis, corollæ galea obtusissima.* *Willd. sp. pl. 3. p. 210.* *recutita.*

Icon. *Jacq. fl. austr. 258.*

On the north-west coast. *A. Menzies*; and probably throughout Canada. *N.* July. *v. s. in Herb. Banks.* Flowers purple.

8. *P. caule simplici, foliis profunde pinnatifidis, pinnis lineari-lanceolatis crenatis, spica laxa subfoliosa, calycibus glabris 5-dentatis, corollæ galea obtusa truncata.* *Willd. sp. pl. 3. p. 210.* *elata.*

In low plains, on the waters of Clark's river. *M. Lewis.* *N.* July. *v. s. in Herb. Lewis.* Near two feet high; flowers purple.

9. *P. caule simplici, foliis pinnatifidis, pinnis serratis, calycibus bifidis oblongis, corollæ galea uncinata truncata.* *Willd. sp. pl. 3. p. 207.* *lapponica.*

Icon. *Fl. dan. 2. Fl. lapp. t. 4. f. 1.*

In Labrador. *Colmaster. N.* July. *v. s. in Herb. Dickson.* Flowers yellow.

*grœnlandica*. 10. *P.* caule simplici, foliis profunde pinnatifidis, pinnis lanceolatis acuminatis serratis, calycibus glabris 5-dentatis, corollis clausis, galea uncinato-subulata. *Willd. sp. pl.* 3. p. 212.

Icon. *Fl. dan.* 1166. *Retz. obs.* 4. t. 1.

In low plains of the Columbia. *M. Lewis*. 24. July. *v. s. in Herb. Lewis. nec non Lambert*. Flowers purple.

*verticillata*. 11. *P.* caule simplici, foliis caulinis profunde pinnatifidis quaternis, pinnis linearibus acute dentatis, spica capitata involucreta, calycibus villosis 5-fidis, corollæ galea obtusissima.

*P. verticillata* β. *Willd. sp. pl.* 3. p. 214.

*P. lanata*. *Pallas in Herb. Lambert*.

On the north-west coast. *Nelson*. 24. *v. s. in Herb. Banks. nec non Lambert*. Not above two inches high; flowers purple.

*flammea*. 12. *P.* caule simplici, foliis pinnatis, pinnis imbricatis ovatis obtusis duplicato-dentatis, calycibus 5-dentatis, corollæ galea obtusa. *Willd. sp. pl.* 3. p. 213.

Icon. *Fl. dan.* 30. *Fl. lapp.* t. 4. f. 2. *Hall. f. helv.* t. 8. f. 3.

In Labrador. *Colmaster*. 24. *v. s. in Herb. Dickson*. Not above three inches high; flowers yellow, with a scarlet helmet.

### 509. MIMULUS. *Gen. pl.* 1049.

*ringens*. 1. *M. erectus*, glaber; foliis sessilibus lanceolatis acuminatis serratis, pedunculis axillaribus oppositis flore longioribus, dentibus calycis oblongis acuminatis.—*Willd. sp. pl.* 3. p. 360.

Icon. *Bot. mag.* 283. *Pluk. amalth.* t. 393. f. 3.

In low grounds, on clay soil: Pennsylvania to Carolina. 24. July, Aug. *v. v.* Flowers pale blue, large.

*alatus*. 2. *M. erectus*, glaber; foliis petiolatis ovatis acuminatis serratis, pedunculis axillaribus oppositis flore brevioribus, dentibus calycis rotundatis mucronatis, caule tetragono alato.—*Willd. sp. pl.* 3. p. 361.

In ditches and on the borders of ponds: Pennsylvania to Carolina. 24. July, Aug. *v. v.* Flowers the size and colour of the foregoing.

*luteus*. 3. *M. erectus*, glaber, stoloniferus; foliis subrotundo-ovatis nervosis dentatis, inferioribus obtusis petiolatis, superioribus acutis arcte sessilibus, racemo terminali,

ennis lan-  
-dentatis,  
Willd. sp.

22. July.  
Flowers

innatifidis  
pica capi-  
collae galea

rb. Banks.  
n, flowers

catis ovatis  
is, corollae

11. fl. helv.

ackson. Not  
with a scar-

s acumina-  
flore lon-  
s.—Willd.

3.  
Carolina.  
large.

acuminatis  
re breviori-  
s, caule te-

sylvania to  
rs the size

tundo-ova-  
iolatis, su-  
terminali,



*Mimulus lewisii*

P  
9  
Icon  
On  
n  
H  
la  
an  
pl  
4. M.  
la  
ri  
til  
On t  
ag  
L  
th  
tif  
1. C. fo  
spi  
p.  
a. C. fo  
β. C. fo  
C. ob  
C. pu  
Icon  
t.  
On t  
gl  
tai  
Fl  
in  
ati  
co  
1. P. ca  
ple  
teg  
pe  
Chel  
Icon  
t.

DIDYNHAMIA ANGIOSPERMIA. *Mimulus*.

437

pedunculis axillaribus oppositis elongatis, calyce inaequali, dentibus acutiusculis.—*Willd. sp. pl.* 3. p. 361.

Icon. *Feuill. peruv.* 2. t. 34.

On the banks of Clark's river. *M. Lewis*. On the north-west coast. *Pallas*.  $\mathcal{U}$ . July, Aug. *v. s.* in *Herb. Lewis. nec non Lambert*. Flowers golden-yellow. It has lately been introduced into the gardens, and will be a fine addition to our hardy perennial plants.

4. *M. erectus*, pusillus, pubescens; foliis sessilibus oblongo-lanceolatis acutis nervosis mucronato-denticulatis floribus paucis terminalibus longissime pedunculatis, dentibus calycis acuminatis.

*Lewisii*.

On the head springs of the Missouri, at the foot of Portage hill. *M. Lewis*.  $\mathcal{U}$ . Aug. *v. s.* in *Herb. Lewis*. Not above eight inches high; flowers two or three, larger than any other known species, of a beautiful pale purple.

510. CHELONE. *Gen. pl.* 1003.

1. *C. foliis oppositis lanceolato-oblongis acuminatis serratis, spicis terminalibus densifloris*.—*Willd. sp. pl.* 3. p. 223.

*glabra*.

$\alpha$ . *C. foliis subsessilibus, floribus albis*.

$\beta$ . *C. foliis brevi-petiolatis, floribus purpureis*.

*C. obliqua*. *Willd. sp. pl.* 3. p. 223.

*C. purpurea*. *Mill. dict. n.* 2.

*alba, purpurea*.

Icon. *Schkuhr handb.* 172. *Mill. ic.* 93. *Pluk. mant.* t. 348. f. 3.

On the banks of rivers, ponds, and swamps: New England to Carolina.  $\beta$  In rivulets on the high mountains of Virginia and Carolina.  $\mathcal{U}$ . July, Aug. *v. v.* Flowers large, in close spikes, in var.  $\alpha$ . white; purple in var.  $\beta$ . I have not been able to find sufficient distinctions between *C. glabra* and *C. obliqua*, so as to consider them distinct species.

511. PENTSTEMON. *Gen. pl.* 1758.

1. *P. caule glabro, foliis lævigatis ovato-oblongis basi amplexicaulibus tenuissime denticulatis, inferioribus integerrimis, floribus paniculatis, filamento sterili superne barbato*.—*Willd. sp. pl.* 3. p. 228.

*lævigata*.

*Chelone Penstemon*. *J. F. Miller. ic.* 4.

Icon. *Lam. illustr.* 528. *Arduin. spec. t.* 5. *Moris. hist.* 2. s. 5. t. 8. f. 6.

In stony low grounds: Pennsylvania to Carolina: *W.* July—Sept. *v. v.* From one to two feet high; flowers pale purple.

*pubescens.*

2. *P. caule pubescente, foliis serrulatis lanceolato-oblongis sessilibus, floribus paniculatis, filamento sterili ab apice infra medietatem barbato.*—*Willd. sp. pl.* 3. p. 227.

*Chelone Pentstemon. Mant.* 415.

*latifolia.*

*α. P. foliis lævigatis serratis latioribus.*

*Icon. Moris. hist.* 3. s. 11. t. 21. f. 2.

*angustifolia.*

*β. P. foliis pubescentibus obscure denticulatis angustis.*

*P. hirsuta. Willd. sp. pl.* 3. p. 227.

*Chelone hirsuta. Mill. dict. n.* 3.

*Icon. Moris. hist.* 3. s. 11. t. 21. f. 3.

On the side of hills and in dry meadows: New York to Virginia. *W.* July—Sept. *v. v.* About a foot high; flowers pale purple, longer than the foregoing species.

*frutescens.*

3. *P. caule fruticoso, ramis angulatis superne pubescentibus, foliis lanceolatis obsolete denticulatis sessilibus glabriusculis, racemis terminalibus subcorymbosis, filamento sterili longitudinaliter barbato.*—*Lambert in linn. trans.* 10. p. 259.

*Icon. Linn. trans.* 10. t. 6.

On the north-west coast. *M. Lewis. Unalaska. Pallas. h. v. s. in Herb. Lambert. nec non Lewis.* A small shrub, about a foot or more high; flowers purple.

#### 512. MARTYNIA. *Gen. pl.* 1010.

*Proboscidea.*

1. *M. caule ramoso, foliis alternis cordatis integerrimis villosis.*—*Willd. sp. pl.* 3. p. 264.

*M. alternifolia. Lam. encycl.* 2. p. 112.

*M. annua. Sp. pl.* 862.

*Icon. Bot. mag.* 1056. *Mill. ic.* 286.

On the banks of the Mississippi. *Q. July. v. v.* Flowers large, white, speckled with purple and yellow. The singular shape of its fruit, connected with the beauty of its flowers, makes this annual a desirable plant in all collections.

#### 513. SCHWALBEA. *Gen. pl.* 1001.

*americana.*

1. *S. simplex, pubescens; foliis lanceolatis, racemo terminali, floribus alternis.*—*Willd. sp. pl.* 3. p. 201.

*Icon. Lam. illustr.* 520. *Pluk. munt. t.* 348. f. 2.

In pine-barrens: New Jersey to Carolina. *W.* ♂. June, July. *v. v.* Flowers yellowish-brown.

514. RHINANTHUS. *Gen. pl.* 997.

1. *R. corollarum* labio superiore emarginato bidentato, lacinia media labii inferioris brevissima. *Willd. sp. pl.* 3. p. 188. *Crista galli.*  
*Icon. Schkuhr handb.* 169. *Fl. dan.* 981. *Engl. bot.* 657.  
 In fields and meadows: Lower Canada. ☉. June, July.  
*v. v.* Flowers yellow. *R. virginicus*. *Vid. Gerardia*  
*& Pedicularis pallida.*

515. BARTSIA. *Gen. pl.* 996.

1. *B. foliis alternis linearibus indivisis, superioribus lanceolatis, floralibus subovalibus summitate subdentatis, omnibus 3-nerviis, dentibus calycis acutis.*—*Willd. sp. pl.* 3. p. 186. *Mich. fl. amer.* 2. p. 17. *pallida.*  
*Icon. Gmel. fl. sib.* 3. t. 42.  
 In Canada and Labrador. On the White-hills of New Hampshire. *Prof. Peck.* ♀. July. *v. s. in Herb. Lambert.* Flowers pale yellow; the floral leaves purple.
2. *B. foliis alternis prælongo-linearibus, floralibus ovatis longissime acuminatis 3-nerviis, omnibus indivisis, floribus bracteis brevioribus, dentibus calycis acutis.* *acuminata.*  
 On the north-west coast: Unalashka. ♀. *v. s. in Herb. Lambert.*
3. *B. hirsutissima; foliis alternis linearibus inciso-pinnatifidis: lacinii filiformibus, bracteis membranaceis oblongis obtusis basi utrinque hastato-unidentatis floribus longioribus, calycibus brevibus pilosis, dentibus subulatis.* *tenuifolia.*  
 On the banks of Clark's river. *M. Lewis.* ♀. July. *v. s. in Herb. Lewis.* About a foot high; flowers deep yellow; floral leaves tinged with purple.
4. *B. foliis alternis linearibus inciso-pinnatifidis, lacinii linearibus, bracteis dilatatis plerumque trifidis floribus longioribus, dentibus calycis rotundato-obtusis.*—*Willd. sp. pl.* 3. p. 185. *coccinea.*  
*Icon. Pluk. alm. t.* 102. *f.* 5. *Moris. hist.* 3. s. 11. t. 13. *f.* 28.  
*α. B. bracteis coccineis.* *coccinea.*  
*β. B. bracteis lutescentibus. Rarior.* *pallens.*  
 In wet meadows: Canada to Florida. ♂. ♀. June, July. *v. v.* Flowers yellow, involved in scarlet floral leaves, which give this plant a very elegant appearance.

*alpina*.

5. *B. foliis oppositis ovatis subcordatis obtuse-serratis rugosis, antheris hirsutis.*—*Willd. sp. pl.* 3. p. 187.  
*Icon. Fl. dan.* 43. *Engl. bot.* 361. *Schkuhr handb.* 169.  
 In Labrador. *Colmaster.* ♀. July. *v. s. in Herb. Dickson.* Not above six inches high; floral leaves similar to the stem leaves, purple; flowers long, of a fine deep purple.

*Gymnandra*.

6. *B. foliis suboppositis ovatis crenatis, binis radicalibus petiolatis, spica oblonga, verticillis bracteatis coarctatis.*—*Willd. sp. pl.* 3. p. 186.  
*Gymnandra borealis.* *Pall. itin.* 3. t. A. f. 1.  
*Lagotis glauca.* *Gart. act. petrop.* 14. t. 18.  
 On the mouth of the river Columbia. *M. Lewis.* In Unalashka. *Herb. Pallas.* ♀. *v. s. in Herb. Lewis, nec non Lambert.* About a span high; flowers pale blue. This singular plant grows on the most unfertile rocks, exposed to the most rigorous cold winds, in places where vegetation seems entirely to cease.

516. EUPHRASIA. *Gen. pl.* 998.*officinalis*.

1. *E. foliis ovatis obtuse-dentatis, laciniis labii corollæ inferioris emarginatis.* *Willd. sp. pl.* 3. p. 193.  
*Icon. Fl. den.* 1037. *Engl. bot.* 1416. *Sabb. hort.* 3. t. 9.  
 In Canada. *Michaux.* ☉. July—Sept. *v. s.* Flowers white, with purple veins.

*latifolia*.

2. *E. foliis ovatis dentato-palmatis, floribus spicatis, corollis tubulosis, laciniis labii inferioris obtusis.* *Willd. sp. pl.* 3. p. 192.  
*Icon. Sabb. hort.* 3. t. 7. *Moris. hist.* 3. s. 11. t. 24. f. 8.  
 In Labrador. *Colmaster.* ☉. July. *v. s. in Herb. Dickson.* Flowers smaller, pale purple.

517. MELAMPYRUM. *Gen. pl.* 999.*lineare*.

1. *M. gracile; foliis inferioribus linearibus integris, floralibus lanceolatis postice dentatis, floribus axillaribus distinctis.*—*Lam. encycl.* 4. p. 23.  
*M. americanum.* *Mich. fl. amer.* 2. p. 16.  
 In shady woods, particularly on the mountains: Canada to Carolina. ☉. July, Aug. *v. v.* Flowers yellow.

518. OBOLARIA. *Gen. pl.* 1044.

1. O. caule simplici, foliis oblongis truncatis carnosis subtus purpureis, floribus axillaribus solitariis sessilibus.—*Willd. sp. pl.* 3. p. 346.  
*Icon. Pluk alm. t.* 209. *f.* 6. *Moris. hist.* 3. s. 12. *t.* 16. *f.* 23.  
 In shady rocky places: Pennsylvania to Virginia; rare. Not above three inches high; flowers pale red, in a spike, supported by purple bracteas. *virginica.*

519. OROBANCHE. *Gen. pl.* 1045.

1. O. caule ramoso, floribus alternis distantibus, corollis deciduis 4-dentatis.—*Willd. sp. pl.* 3. p. 351.  
*Icon. Moris. hist.* 3. s. 12. *t.* 16. *f.* 9.  
 Parasitic on the roots of beech-trees: Canada to Georgia. *virginiana.*  
*℥.* July—Sept. *v. v.* Flowers small, purple. This plant is known by the name of *Cancer-root*, being thought to be a never-failing remedy in cancerous ulcers.
2. O. caule simplicissimo squamis ovali-lanceolatis imbricatis oblecto, spica terminali glabra, corollis recurvatis, staminibus exsertis.—*Willd. sp. pl.* 3. p. 351.  
 Parasitic on the roots of trees: Pennsylvania to Carolina. *americana.*  
*℥.* July. *v. v.* About a span high, of a brownish-yellow colour.
3. O. scapis nudis unifloris, calyce ebracteato, corolla recurvata.—*Willd. sp. pl.* 3. p. 352.  
*Icon. Pluk. mant. t.* 348. *f.* 3. *uniflora.*  
 Parasitic on the roots of different plants and shrubs: Canada to Virginia. *℥.* June, July. *v. v.* Not above two or three inches high, of a tan colour; flowers pale purple.

## XIV. TETRADYNAMIA.

### I. SILICULOSA.

#### \* *Silicula integra.*

520. DRABA. *Silicula* integra, ovali-oblonga, valvis planiusculis dissepimento parallelis.
521. MYAGRUM. *Silicula* suberosa, evalvis, loculis fertilibus atque spuriiis, sibi mutuo superimpositis. *Stylus* persistens.
522. CAKILE. *Silicula* lanceolata, subtetragona, medio utrinque dente instructa, biarticulata, ad articulos sedens : articulis monospermis, evalvibus.

#### \*\* *Silicula apice emarginata.*

523. ALYSSUM. *Filamenta* quædam introrsum denticulo notata. *Silicula* emarginata, plerumque pilosa.
524. CORONOPUS. *Silicula* reniformis, compressa, corrugata, loculis evalvibus monospermis.
525. LEPIDIUM. *Silicula* emarginata, cordata, polysperma : valvulis carinatis dissepimento contrariis.
526. THLASPI. *Silicula* emarginata, obcordata, polysperma : valvulis navicularibus, marginato-carinatis.

### II. SILIQUOSA.

#### \* *Calyx clausus, foliolis longitudinaliter conniventibus.*

527. ERYSIMUM. *Siliqua* columnaris, tetraëdra.
528. CHEIRANTHUS. *Silicula* compressa. *Stigma* bilobum. *Germen* utrinque denticulo glandulato.
529. HESPERIS. *Petala* oblique flexa. *Siliqua* stricta. *Stigma* basi bifurca apice connivente. *Glandula* intra stamina breviora.
530. ARABIS. *Siliquæ* compressæ. *Glandulæ* nectari-

feræ 4  
reflexæ  
531. TURRI  
Cal. co  
532. BRASSI  
tum pr  
mina b  
533. DENTA  
volutis  
ginatu

\*\* Ca

534. CARD  
revolut  
535. SISYMI  
valvuli  
536. CLEOM  
sinum  
adscen  
ris, 2-

1. D. scapo  
petalis  
p. 426.  
Icon. Fl. a  
In cultivat  
O. Mar  
nus are s

2. D. scapo n  
lis long  
amer. 2.  
D. carolini  
In sandy fi  
of the M

3. D. scapo s  
gerrimis  
—Will

feræ 4. singula intra calycis foliola, squamæ instar reflexæ.

531. TURRITIS. *Siliqua* longissima, angulata, striata. *Cal.* connivens, erectus. *Petala* erecta.  
 532. BRASSICA. *Cal.* erectus, connivens. *Dissepimentum* prominens. *Sem.* globosa. *Glandula* inter stamina breviora et calycem. *Siliqua* teres, rostrata.  
 533. DENTARIA. *Siliqua* elastice dissiliens, valvulis revolutis. *Dissepimentum* subfungosum. *Stigma* emarginatum. *Cal.* connivens.

\*\* *Calyx* hians, *foliolis* superne distantibus.

534. CARDAMINE. *Siliqua* elastice dissiliens, valvulis revolutis. *Stigma* integrum.  
 535. SISYMBRIUM. *Siliqua* rostro brevi tereti dehiscent, valvulis rectiusculis. *Corolla* patens.  
 536. CLEOME. *Glandulæ* nectariferæ 3. ad singulum sinum calycis singulæ, excepto infimo. *Petala* omnia adscendentia. *Germen* stipitatum. *Siliqua* 1-locularis, 2-valvis.

## I. SILICULOSA.

520. DRABA. *Gen. pl.* 1076.

1. D. scapo nudo, foliis oblongis acutis subserratis hirtis, petalis bifidis, stigmatibus sessilibus.—*Willd. sp. pl.* 3. p. 426.

*Icon. Fl. dan.* 983. *Engl. bot.* 586.

In cultivated grounds and old fields: Canada to Virginia. ☉. March—May. *v. v.* All the species of this genus are small plants with white flowers.

2. D. scapo nudo, foliis ovalibus acutis hirsutissimis, siliculis longo-linearibus glabris approximatis.—*Mich. fl. amer.* 2. p. 28.

*D. caroliniana. Walt. fl. car.* 174.

In sandy fields: Virginia and Carolina, and on the banks of the Missouri. ☉. April—June. *v. v.*

3. D. scapo subunifolio adscendente, foliis lanceolatis integerrimis subtomentosis: pilis stellatis, petalis retusis.—*Willd. sp. pl.* 3. p. 427.

*verna.*

*hispidula.*

*nivalis.*

- glabella*. Icon. *Fl. dan.* 142. *Liljeblad nov. act. ups.* 6. t. 2. f. 2.  
In Labrador. *Colmaster*. ☉. May. *v. s.* in *Herb. Dickson*.
4. D. scapo subbifolio erecto, foliis spathulato-lanceolatis  
glabriusculis, racemo densifloro, siliculis ovato-lanceo-  
latis acutis.  
In Hudson's Bay. ☉. *v. s.* in *Herb. Banks*.
- incana*. 5. D. foliis caulinis numerosis incanis, pilis implexis stella-  
tis, siliculis oblongis obliquis stylo brevissimo mucro-  
natis.—*Willd. sp. pl.* 3. p. 430.  
Icon. *Fl. dan.* 130. *Engl. bot.* 388. *Pluk. alm.* t. 42.  
f. 1.  
In Labrador. ♂. May, June. *v. s.* in *Herb. Lambert*.
- arabisans*. 6. D. caule folioso subramoso, foliis radicalibus cuneato-  
lanceolatis, caulinis lanceolatis, omnibus acutis diva-  
ricato-dentatis, siliculis stylo acuminatis.—*Mich. fl.*  
*amer.* 2. p. 29.  
On rocks, near the banks of rivers: Canada to Virginia.  
♂. May, June. *v. v.* I collected specimens on the  
rocks near Harper's Ferry, Virginia.

521. MYAGRUM. *Gen. pl.* 1069.

- argenteum*. 1. M. undique cano-tomentosum; siliculis oblongis pedun-  
culatis tomentosis, foliis lineari-spathulatis sensim at-  
tenuatis integerrimis, petalis obovatis.  
On the banks of the Missouri. ♂. *v. s.* Flowers yel-  
low; the whole of the plant has some resemblance to  
*Alyssum saxatile*.

522. CAKILE. *Gært. sem.* 2. p. 287.

- maritima*. 1. C. foliis pinnatis, pinnis linearibus subdentatis. *Willd.*  
*sp. pl.* 3. p. 416.  
*Bunias Cakile. Sp. pl.* 936.  
Icon. *Engl. bot.* 231.  
On the sea-coast: Canada to Virginia. ☉. July, Aug.  
*v. v.* Flowers purple.

523. ALYSSUM. *Gen. pl.* 1081.

- hyperboreum*. 1. A. caulibus herbaceis, foliis incanis dentatis, staminibus  
4. bifurcatis. *Willd. sp. pl.* 3. p. 463.  
Icon. *Kraschen. act. petr.* 1747. t. 15. f. 1.  
On the north-west coast. +.

1. C. siliculis  
rymbis  
Cochlearia  
Icon. *Fl. d.*  
Cn road-si  
*v. v.* R  
2. C. siliculis  
obsoleto  
Cochlearia  
Lepidium  
Lepidium  
Biscutella  
In cultivat  
—Aug.  
both hav

1. L. foliis radi-  
subincise  
lentiform  
Icon. *Sloa*  
t. 21. f.  
In dry field  
June—A  
conspicu

1. T. siliculis  
dentatis  
Icon. *Fl. d.*  
In stony fie  
June, Ju  
2. T. hirsutur  
libus pinn  
Icon. *Engl*  
A common  
grounds.

524. CORONOPUS. *Gært. sem. t. 142.*

1. *C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucifloris.* *Smith fl. brit. 2. p. 690.*  
*Cochlearia Coronopus. Willd. sp. pl. 3. p. 450.*  
*Icon. Fl. dan. 202. Engl. bot. 1660.*  
 On road-sides: Virginia and Carolina. ☉. June—Aug.  
*v. v.* Flowers very small, white.
2. *C. siliculis emarginatis didymis reticulato-rugosis, stylo obsoleto, corymbis multifloris.* *Smith fl. brit. 2. p. 691.*  
*Cochlearia humifusa. Mich. fl. amer. 2. p. 27.*  
*Lepidium didymum. Willd. sp. pl. 3. p. 439.*  
*Lepidium anglicum. Huds. angl. 280.*  
*Biscutella apetala. Walt. fi. car. 174.*  
 In cultivated grounds of Virginia and Carolina. ☉. June—Aug. *v. v.* Smaller than the foregoing species; both have pinnated leaves.

*Ruellii.**didyma.*525. LEPIDIUM. *Gen. pl. 1077.*

1. *L. foliis radicalibus pinnatifidis, caulinis lineari-lanceolatis subinciso-serratis, floribus 4-petalis diandris, siliculis lentiformibus.*—*Willd. sp. pl. 3. p. 440.*  
*Icon. Sloan. jam. 1. t. 123. f. 3. Moris. hist. 2. s. 3. t. 21. f. 2.*  
 In dry fields and orchards: New York to Carolina. ♂.  
 June—Aug. *v. v.* About a foot high; flowers not conspicuous.

*virginicum.*526. THILASPI. *Gen. pl. 1078.*

1. *T. siliculis orbiculatis compressis lævibus, foliis oblongis dentatis glabris.*—*Willd. sp. pl. 3. p. 442.*  
*Icon. Fl. dan. 793. Engl. bot. 1659.*  
 In stony fields: New York and Pennsylvania; rare. ☉.  
 June, July. *v. v.*
2. *T. hirsutum, siliculis deltoideo-obcordatis, foliis radicalibus pinnatifidis.*—*Willd. sp. pl. 3. p. 447.*  
*Icon. Engl. bot. 1485. Schkuhr handb. 180.*  
 A common weed, every where to be found in cultivated grounds. ☉. April—Sept. *v. v.*

*arvense.**Bursa pastoris.*

## II. SILIQUOSA.

527. ERYSIMUM. *Gen. pl.* 1090.*officinale.*

1. *E. siliquis spicæ adpressis, foliis uncinatis.* Willd. *sp. pl.* 3. p. 509.

Icon. *Fl. dan.* 560. *Schkuhr handb.* 183.

On road sides, frequent: Canada to Carolina. ☉. June, July. *v. v.* Flowers small, yellow.

*cheiranthoides.*

2. *E. siliquis erectis, pedicellis fructiferis patentibus, foliis lanceolatis subintegerrimis.*—Willd. *sp. pl.* 3. p. 511.

Icon. *Fl. dan.* 731 & 923. *Engl. bot.* 942. *Jacq. fl. austr.* 23.

In old fields and on road sides: Virginia; rare. ☉. June, July. *v. v.* Flowers yellow.

*lanceolatum.*

3. *E. foliis lanceolatis inferioribus dentatis, unguibus calyce longioribus, laminis orbiculato-obovatis, stigmate sessili.* *Ait. kew. ed. 2. t. 4. p.* 116.

*Cheiranthus erysimoides.* Willd. *sp. pl.* 3. p. 514.

Icon. *Jacq. fl. austr.* 74.

On the banks of the Missouri. ♂. June. *v. s.*

528. CHEIRANTHUS. *Gen. pl.* 1091.*Pallasii.*

1. *C. caule simplici tereti glabriusculo, foliis glabris lanceolato-linearibus attenuatis repando-dentatis.*

On the north-west coast. *Pallas.* ♂. July. *v. s.* in *Herb. Lambert.* Flowers dark red, the size of *C. Cheiri.*

529. HESPERIS. *Gen. pl.* 1093.*pinnatifida.*

1. *H. foliis argute serratis: superioribus lanceolatis, inferioribus inferne pinnatifidis, siliquis brevi-pedunculatis breviusculis.* *Mich. fl. amer.* 2. p. 31.

In shady woods: Kentucky and Tennessee. ♂. June. *v. v.*

530. ARABIS. *Gen. pl.* 1049.*alpina.*

1. *A. foliis oblongo-lanceolatis amplexicaulibus acute dentatis.* Willd. *sp. pl.* 3. p. 534.

Icon. *Bot. mag.* 226. *Fl. dan.* 62.

In Labrador. *Colmaster.* ♀. May, June. *v. s.* in *Herb. Dickson.* Flowers, as all the following, white.

TE  
2. *A. foliis*  
latis se  
duplo l  
Icon. *Sch*  
In dry sa  
Virginia  
3. *A. foliis*  
tantibus  
Icon. *Plu*  
In sandy f  
*v. v.*  
4. *A. foliis*  
Willd.  
In fields a  
March-  
5. *A. foliis*  
caulibus  
p. 539.  
*A. hispida*  
Icon. *Eng*  
In Labrac  
Dickson  
6. *A. foliis*  
hastato-  
tis.—*M*  
*A. canad*  
Turritis f  
siliquis  
Icon. *Plu*  
In rocky  
May, J  
to five  
7. *A. foliis*  
infimis  
p. 204  
*A. bulbos*  
*A. amara*  
*A. foliis o*  
On the bo  
May.  
the tast  
sirable  
purpose

2. *A. foliis radicalibus oblongis petiolatis, caulinis lanceo-*  
*latis sessilibus, caule erecto basi hirsuto, petalis calyce*  
*duplo longioribus.* Willd. *sp. pl.* 3. p. 535.  
 Icon. *Schkuhr handb.* 185. *Curt. fl. lond.* 2. t. 49.  
 In dry sandy fields and on old walls: New England to  
 Virginia. ☉ April—July. *v. v.*
3. *A. foliis subrotundis integerrimis hirsutis, surculis rep-*  
*tantibus.* Willd. *sp. pl.* 3. p. 536.  
 Icon. *Pluk. alm.* t. 51. f. 5.  
 In sandy fields: Pennsylvania to Virginia. ♀. June, July.  
*v. v.*
4. *A. foliis glabris, radicalibus lyratis, caulinis linearibus.*  
*Willd. sp. pl.* 3. p. 538.  
 In fields and on dry hills: Canada to Pennsylvania. ☉.  
 March—May. *v. v.*
5. *A. foliis dentatis obtusis hispidis, radicalibus sublyratis,*  
*caulibus hispidis, petalis erectis.*—Willd. *sp. pl.* 3.  
 p. 539.  
*A. hispida.* Ait. *kw.* 2. p. 400.  
 Icon. *Engl. bot.* 614.  
 In Labrador. Colmaster. ♀. May. *v. s. in Herb.*  
*Dickson.*
6. *A. foliis lanceolatis utrinque angustatis remote dentatis*  
*hastato-sessilibus, siliquis pendulis ancipitibus falca-*  
*tis.*—Mich. *fl. amer.* 2. p. 31.  
*A. canadensis.* Willd. *sp. pl.* 3. p. 540.  
*Turritis foliis lanceolatis dentatis, radicalibus maximis,*  
*siliquis compressis falcatis.* Gron. *fl. virg.* 1. p. 77.  
 Icon. *Pluk. alm.* t. 86 f. 8.  
 In rocky shady situations: Canada to Virginia. ♀.  
 May, June. *v. v.*; *v. s. in Herb. Gronov.* From two  
 to five feet high.
7. *A. foliis glabris rhomboideis repando-obsolete-dentatis,*  
*infimis longe petiolatis, radice tuberosa.*—Pers. *syn.* 2.  
 p. 204  
*A. bulbosa.* Muhlb. *in litt.*  
*A. amara.* Herb. Banks.  
*A. foliis ovatis denticulatis glabris.* Gronov. *virg.* 99.  
 On the borders of rivulets and springs. ♀. March—  
 May. *v. v.* This is one of the early spring flowers;  
 the taste resembling spring cresses. It would be de-  
 sirable to have it introduced into the gardens for that  
 purpose, as it will grow in any soil.

*thaliana.**reptans.**lyrata.**stricta.**falcata.**rhomboidea.*

531. TURRITIS. *Gen. pl.* 1093.*lævigata.*

1. *T. foliis glabris, radicalibus obovatis serratis, caulinis lanceolato-linearibus integerrimis amplexicaulibus.* Willd. *sp. pl.* 3. p. 543.

On rocks: Pennsylvania to Virginia; rare. ♂. May, June. *v. v.* Very smooth and glaucous, about a foot high.

*ovata.*

2. *T. pubescens; foliis radicalibus petiolatis ovatis dentatis obtusis, caulinis amplexicaulibus oblongis serratis acutis.*

On rocks: Pennsylvania to Virginia. June. Resembles *T. hirsuta*.

532. BRASSICA. *Gen. pl.* 10.*Napus.*

1. *B. radice caulescente fusiformi, foliis lævibus, superioribus cordato-lanceolatis amplexicaulibus, inferioribus lyratis dentatis.* Willd. *sp. pl.* 3. p. 547.

Icon. *Engl. bot.* 2146.

*Rape* frequently is found wild, but is of European origin. ♂. May, June. *v. v.*

*Rapa.*

2. *B. radice caulescente orbiculari depressa carnosa, foliis radicalibus lyratis scabris, caulinis integerrimis lævibus.* Willd. *sp. pl.* 3. p. 548.

Icon. *Engl. bot.* 2176.

*Turnips* are likewise apparently indigenous.

533. DENTARIA. *Gen. pl.* 1057.*laciniata.*

1. *D. foliis ternis ternatis, foliolis tripartitis lineari-oblongis incisim dentatis, radicis tuberibus moniliformibus.*—Willd. *sp. pl.* 3. p. 479.

*D. concatenata.* Mich. *fl. amer.* 2. p. 30.

In shady mountainous situations: New England to Carolina. ♀. May, June. *v. v.* Flowers large, pale purple.

*diphylla.*

2. *D. caulibus approximate diphyllis, foliolis ternis ovato-oblongis inæqualiter inciso-dentatis, radice dentata.*—Mich. *fl. amer.* 2. p. 30.

Icon. *Bot. mag.* 1465.

In shady beech-woods, on high mountains: Pennsylvania to Carolina. ♀. May, June. *v. v.* Flowers pale red, with a tinge of yellow. The roots of this plant

are of a pungent mustard-like taste, and are used by the natives instead of mustard; in the mountains it is generally known by the name of *Pepper-root*. The figure in the Botanical Magazine is taken from an individual plant, in which the radical leaf is bilobed, which is not always the case.

3. *D. caule distanter diphylo, foliis sessilibus ternatis, foliolis lineari-ellipticis integris, petalis cuneatis.*

*tenella.*

On the banks of the Columbia. *W.* April. *v. s. in Herb. Lewis.* Very slender; leaves small; flowers purple.

534. CARDAMINE. *Gen. pl.* 1088.

1. *C. foliis simplicibus suborbiculatis integriusculis, caulibus simpliciusculis debiliter procumbentibus. Mich. fl. amer. 2. p. 30.*

*rotundifolia.*

On rocks, in the rivulets of the high mountains of Virginia and Carolina. *W.* May, June. *v. v.* The flowers of all the following species are white and small.

2. *C. caule nudo, foliis radicalibus lanceolatis inciso-dentatis glabris, siliquis turgidis subarticulatis.*

*articulata.*

On the north-west coast. *Nelson. W. v. s. in Herb. Banks.* A doubtful species.

3. *C. parvula; caulibus decumbentibus, foliis radicalibus spathulatis pubescentibus, caulinis lineari-cuneatis integris dentatisque, siliquis divaricato-laxis.—Mich. fl. amer. 2. p. 29.*

*spathulata.*

On high mountains of Carolina. *Michaux. +.*

4. *C. pusilla, acaulis; foliis obtuse lyrato-pinnatifidis, pedunculis radicalibus unifloris. Mich. fl. amer. 2. p. 29.*

*uniflora.*

On rocks near Knoxville, Kentucky. *Michaux. +.*

5. *C. pusilla, erecta, ramosa; foliis omnibus sublyrato-pinnatifidis, siliquis brevibus linearibus acuminatis teretibus, brevissime pedicellatis. Mich. fl. amer. 2. p. 29.*

*teres.*

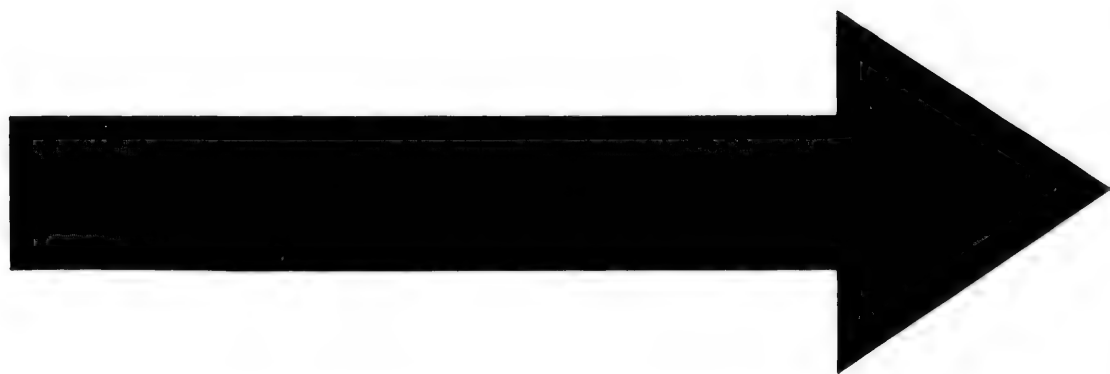
In overflowed places: New England to New Jersey. *W.* June, July. *v. v.*

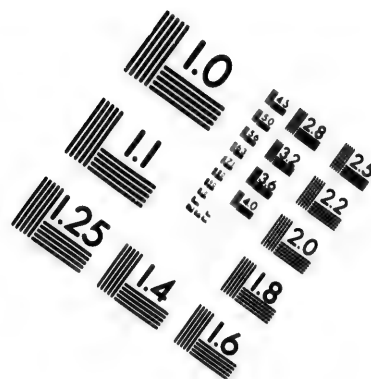
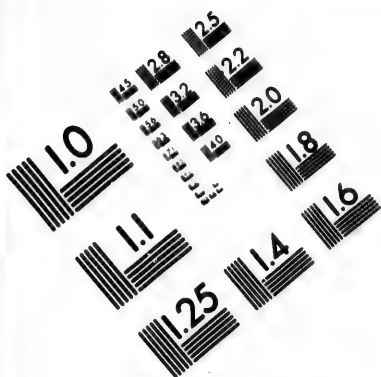
6. *C. glabra, erecta; foliis pinnatis, foliolis lanceolatis subauriculatis, siliquis longis stricte erectis.—Willd. sp. pl. 3. p. 488.*

*virginica.*

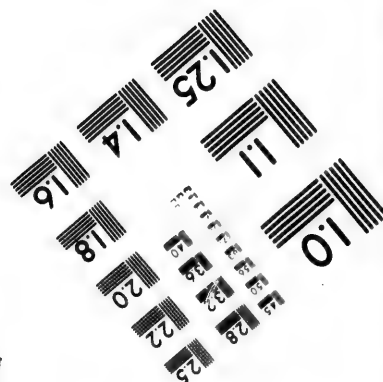
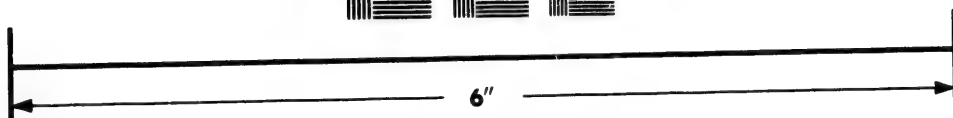
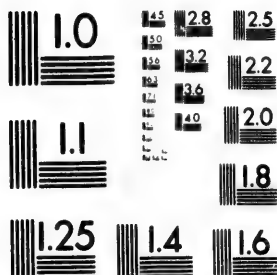
Icon. *Pluk. alm. t. 101. f. 4. Petiv. gaz. t. 105. f. 18.*

In low meadows: Canada to Carolina. *W.* May, June. *v. v.*





# **IMAGE EVALUATION TEST TARGET (MT-3)**



**Photographic  
Sciences  
Corporation**

23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503

28  
25  
22  
20  
18

01

- pensylvanica*. 7. *C. glabra, ramosa*; foliis pinnatis, foliolis subrotundo-oblongis obtusis angulato-dentatis, siliquis angustis erectis.—*Willd. sp. pl.* 3. p. 486.  
In low meadows: New York to Pennsylvania.  $\mathcal{U}$ . June. *v. v.*
- pratensis*. 8. *C. glabra, erecta, simplex*; foliis pinnatis, foliolis radicalibus subrotundis dentatis, caulinis lanceolatis subintegris, racemis subcorymbosis.—*Willd. sp. pl.* 3. p. 487.  
*Icon. Fl. dan.* 1039. *Engl. bot.* 776.  
In meadows: Hudson's Bay.  $\mathcal{U}$ . May. *v. s. in Herb. Banks.* Flowers large, reddish purple.
- multifida*. 9. *C. pubescens, ramosa*; foliis interrupte pinnatis, pinnis bipinnatifidis, laciniis rotundatis incis, siliquis brevibus.—*Herb. Banks.*  
In Florida. *Bartram.*  $\mathcal{U}$ . *v. s. in Herb. Banks.*
535. SISYMBRIUM. *Gen. pl.* 1089.
- Nasturtium*. 1. *S. siliquis declinatis brevibus, foliis pinnatis, foliolis subrotundis repando-pauci-dentatis.*—*Willd. sp. pl.* 3. p. 489.  
*Icon. Fl. dan.* 690. *Schkuhr handb.* 187.  
In rivulets and springs: New England to Virginia.  $\mathcal{U}$ . June, July. *v. v.* *Water-Cress* is found in most countries; I observed it in abundance in the rivulets on the high mountains of the island of Dominica.
- palustre*. 2. *S. siliquis declinatis oblongo-ovatis, foliis pinnatifidis serratis, petalis calyce brevioribus.* *Willd. sp. pl.* 3. p. 490.  
*S. terrestre. Smith fl. brit.* 2. p. 701.  
*Icon. Fl. dan.* 409. *Schkuhr handb.* 187.  
In inundated and low grounds: Canada to Carolina.  $\odot$ . July, Aug. *v. v.* Flowers yellow.
- amphibium*. 3. *S. siliquis declinatis oblongo-ovatis, foliis oblongo-lanceolatis pinnatifidisve serratis, petalis calyce longioribus.* *Willd. sp. pl.* 3. p. 491.  
*Icon. Fl. dan.* 984.  
In ponds and ditches: Pennsylvania to Virginia.  $\mathcal{U}$ . June, Aug. *v. v.* Flowers yellow.
- Sophia*. 4. *S. foliis pinnato-decompositis subpilosis, petalis calyce minoribus.* *Willd. sp. pl.* 3. p. 500.  
*Icon. Fl. dan.* 528. *Engl. bot.* 963.  
On road sides: Virginia; rare.  $\odot$ . July, Aug. *v. v.* Flowers very small, pale yellow.

536. CLEOME. *Gen. pl.* 1099.

1. C. floribus gynandris, foliis quinatis, caule inermi. *pentaphylla*.  
*Willd. sp. pl.* 3. p. 564.  
*Icon. Jacq. hort. vind.* 24. *Rheed. mal.* 9. t. 24.  
 In cultivated grounds: Pennsylvania and Virginia; rare.  
 ☉. July. *v. v.* Flowers pale red, of a singular structure.
2. C. glabra; floribus hexandris, foliis ternatis, foliolis *serrulata*.  
*lanceolatis tenuissime serrulatis, racemo elongato, bracteis linearibus.*  
 On the banks of the Missouri. ☉. Aug. *v. s. in Herb. Lewis.* Flowers pale purple or white.
3. C. glabrum; floribus dodecandris, foliis ternatis ellipticis, *dodecandra*.  
*floribus axillaribus solitaris.*—*Willd. sp. pl.* 3. p. 566.  
*Icon. Sloan. hist.* 1. t. 124. f. 1.  
 On the banks of the Mississippi. ☉. July. *v. v.* Flowers purple.

## XV. MONADELPHIA.

---

### I. TRIANDRIA.

537. **PHYLLANTHUS.** *Cal.* 6-partitus, campanulatus, *Cor.* 0. *Styli* 3. bifidi. *Caps.* 3-locularis. *Sem.* solitaria. *Monoicus.*
538. **MELOTHRIA.** *Cal.* 5-dentatus. *Cor.* campanulata. *Stigm.* 3. *Bacca* 3-locularis, polysperma.
539. **MOMORDICA.** *Cal.* 5-fidus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* sicca elastice dissiliens. *Sem.* compressa. *Monoica.*
540. **SICYOS.** *Cal.* 5-dentatus. *Cor.* 5-partita. *Styl.* 3-fidus. *Pepo* monosperma. *Monoica.*

### II. PENTANDRIA.

541. **PASSIFLORA.** *Cal.* 5-partitus. *Pet.* 5. calyci inserta. *Nectar.* corona filamentosa. *Styli* 3. *Pepo* pedicellata.
542. **IRESINE.** *Cal.* 2-phyllus. *Pet.* 5. *Nectar.* 5-6-7. *Stigm.* 2. sessilia. *G.* seminibus tomentosis. *Dioica.*
543. **ILLECEBRUM.** *Cal.* 5-phyllus, cartilagineus. *Cor.* 0. *Squamulae* 5. basi in tubum connatae. *Stigma* 2-fidum. *Caps.* 1-sperma, calyce tecta.
544. **GALAX.** *Cal.* 5-partitus. *Pet.* 5. imo staminum affixa. *Urceolus* 10-fidus, laciniis 5. alternis brevioribus, antheiferis. *Stigm.* 3-lobum. *Caps.* 3-locularis, 3-valvis, polysperma.
545. **LOBELIA.** *Cal.* 5-fidus. *Cor.* 1-petala, irregularis, saepius fissa. *Caps.* infera, 2-3-locularis.

546. GE  
S

547. HA  
S

548. ST  
bu  
2-

549. HO  
S  
nu

550. GO  
S  
R

551. STE  
co  
Ca  
loc

552. "SIL  
tus

553. CRI  
cu  
pe

554. MA  
Ca

555. MA  
ab

556. HIB  
Pe

5

1. P. foliis  
pe  
pl.

## III. DECANDRIA.

546. GERANIUM. *Cal.* 5-phyllus. *Pet.* 5. *Stam.* 10.  
*Stigm.* 5. *Arilli* 5. monospermi, aristati.

## IV. POLYANDRIA.

547. HALEZIA. *Cal.* 4-dentatus, superus. *Cor.* 4-fida.  
*Stam.* 8—12. *Nux* 4-angularis, 2-sperma.
548. STYRAX. *Cal.* subinteger, inferus. *Cor.* infundibuliformis, 5—7-partita. *Stam.* 8—16. *Drupa* 1—2-sperma, coriacea.
549. HOPEA. *Cal.* 5-fidus, superus. *Cor.* 5-petala.  
*Stam.* multa, connata in 5. corpora. *Styl.* 1. *Drupa* nuce 3-loculari.
550. GORDONIA. *Cal.* 5-phyllus. *Pet.* 5. basi connata.  
*Styl.* 5-gonus, stigmatē 5-fido. *Caps.* 5-locularis.  
*Recept.* centrale, columnare. *Sem.* bina, ala foliacea.
551. STEWARTIA. *Cal.* 5-partitus. *Pet.* 5. *Styl.* 5.  
connati s. liberi. *Stigm.* capitatum, sub-5-lobum.  
*Caps.* 5-locularis, 5-valvis, valvulis medio septiferis,  
loculis 1—2-spermis. *Sem.* 1—2. ossea.
552. SIDA. *Cal.* simplex, angulatus. *Styl.* multipartitus.  
*Caps.* plures, 1-spermæ.
553. CRISTARIA. *Cal.* simplex, 5-fidus. *Pet.* 5. unguiculata.  
*Styli* plures. *Fructus* orbiculato-depressus, pellicula tectus,  
dehiscens in *Arillos* bialatos.
554. MALVA. *Cal.* duplex: exterior 3-phyllus. *Pet.* 5.  
*Caps.* plurimæ, evalves, 1-spermæ.
555. MALOPE. *Cal.* duplex: exterior 3-phyllus. *Caps.* absque ordine glomeratæ, monospermæ.
556. HIBISCUS. *Cal.* duplex: exterior polyphyllus.  
*Pet.* 5. *Caps.* 5-locularis, polysperma.

## I. TRIANDRIA.

537. PHYLLANTHUS. *Gen.* pl. 1412.

1. P. foliis obovatis obtusiusculis, floribus geminis axillaribus  
pedicellatis, caule erecto ramoso tereti. *Willd. sp.*  
*pl.* 4. p. 574.

obovatus.

MONADELPHIA TRIANDRIA. *Phyllanthus*.

*P. carolinensis*. *Walt. fl. car.* 228. *Mich. fl. amer.* 2. p. 209.

In gravelly soil, on the banks of rivers: Pennsylvania to Georgia. ☉. June, July. *v. v.* About a span or more high; the branches grow regularly in two rows.

538. MELOTHRIA. *Gen. pl.* 68.

*pendula*.

1. *M. foliis subreniformibus lobato-angulosis: lobo impari cæteris æquali, bacca cylindraceo-ovata. Mi h. fl. amer.* 2. p. 217. *Willd. sp. pl.* 1. p. 189.

Icon. *Pluk. alm. t.* 85. f. 5.

In sandy, wet places, particularly on the islands of large rivers: Virginia to Georgia. ☉. June. *v. v.* Flowers small, yellow. Fruit the size of a pea, black.

539. MCMORDICA. *Gen. pl.* 1477.

*echinata*.

1. *M. pomis tetraspermis subrotundis setoso-echinatis, foliis cordatis 5-lobo-angulatis acuminatis integerrimis glabris. Willd. sp. pl.* 4. p. 605.

*Sicyos lobata. Mich. fl. amer.* 2. p. 217.

In the western parts of the United States: On the banks of the Ohio and Mississippi. ☉. July. *v. v.* Fruit the size of a gooseberry.

540. SICYOS. *Gen. pl.* 1481.

*angulata*.

1. *S. foliis angulo obtuso cordatis 5-angularibus denticulatis scabris, fructibus capitatis, hispidis.—Willd. sp. pl.* 4. p. 625.

Icon. *Dill. elth. t.* 51. f. 59. *Herm. parad. t.* 133.

On the banks of rivers: Canada to Carolina. ☉. June, July. *v. v.*

## II. PENTANDRIA.

541. PASSIFLORA. *Gen. pl.* 509.

*lutea*.

1. *P. foliis cordatis trilobis obtusis glabris, petiolis eglandulosis, pedunculis axillaribus geminis, petalis calyce duplo angustioribus. Willd. sp. pl.* 3. p. 615.

Icon. *Cavan. diss.* 10. t. 267. *Jucq. ic.* 3. t. 607.

On the banks of rivers, in shady rocky situations: Virginia to Florida.  $\mathcal{U}$ . June—Aug. *v. v.* Flowers small, greenish-yellow.

2. *P. foliis peltatis profunde trilobis glabris, lobis linearilanceolatis divaricatis, petiolis biglandulosis, pedunculis solitariis axillaribus, floribus apetalis.* *Willd. sp. pl.* 3. p. 617.

*pellata.*

Icon. *Cavan. diss.* 10. t. 274. *Pluk. alm. t.* 210. f. 4.

In Virginia and Georgia.  $\mathcal{h}$ . *v. s.* Flowers of a middle size.

3. *P. foliis trilobis serratis, lobis oblongis acutis, petiolis biglandulosis, involucro triphylo, foliolis lanceolatis glanduloso-dentatis, filis coronæ corolla longioribus.* *Willd. sp. pl.* 3. p. 621.

*incarnata.*

Icon. *Cavan. diss.* 10. 293. *Hern. mex. t.* 888. *Rob. ic.* 193.

On the banks of rivers of Virginia and Carolina.  $\mathcal{U}$ . June—Aug. *v. v.* Flowers beautiful, blue and variegated.

#### 542. IRESINE. *Gen. pl.* 1519.

1. *I. foliis punctato-scabris, inferioribus lato-ovalibus, superioribus ovato-lanceolatis, panicula ramosa conferta, caule sulcato.*—*Willd. sp. pl.* 4. p. 765.

*celosioides.*

In overflowed grounds, on the banks of rivers: Virginia to Florida.  $\odot$ . July, Aug. *v. v.* Flowers exceeding small.

#### 543. ILLECEBRUM. *Gen. pl.* 407.

1. *I. caulibus repentibus hirsutis, foliis lato-lanceolatis petiolatis, capitulis orbiculatis nudis sessilibus.*—*Willd. sp. pl.* 1. p. 1208.

*polygonoides.*

*Gomphrena polygonoides. Sp. pl.* 225.

*I. Achyrantha. Walt. fl. car.* 103.

Icon. *Sloan. hist.* 1. t. 86. f. 2.

On the sea-coast: Virginia to Carolina; plentifully about Charlestown, South Carolina.  $\mathcal{U}$ . June—Aug. *v. v.* A low creeping plant, with small flowers, in spiny clusters.

2. *I. caulibus repentibus glabris, foliis lato-lanceolatis petiolatis, capitulis orbiculatis pubescentibus.* *Willd. sp. pl.* 1. p. 1208.

*ficoideum.*

*Achyranthes ficoidea. Pers. syn.* 1. p. 259.

Icon. *Jacq. amer. t. 60. f. 4.*

On the sea-coast: Carolina to Florida.  $\mathcal{U}$ . July, Aug. *v. v.* Resembles the former one.

*vermiculatum.*

3. *I. glabrum*; caulibus repentibus, foliis subteretibus carnosus, capitulis solitariis terminalibus oblongis.—*Sp. pl.* 300.

*Gomphrena vermicularis. Willd. sp. pl. 1. p. 1322.*

Icon. *Herm. parad. t. 15. Pluk. alm. t. 75. f. 9.*

On the sea-coast: Carolina to Florida.  $\mathcal{U}$ . June—Aug. *v. s.*

*dichotomum.*

4. *I. caulibus suffruticosis diffusis, foliis linearibus planis acutis margine scabris, cyma dichotoma.*—*Willd. sp. pl. 1. p. 1196.*

In Virginia.  $\mathcal{h}$ . +. I never saw this plant either living or in a dried state.

#### 544. GALAX. *Gen. pl.* 382.

*Erythrorhiza. Mich. fl. amer. 2. p. 34.*

*rotundifolia.*

1. *G. glaberrima*; foliis orbiculato-reniformibus dentatis, spica longissima.

*Galax aphylla. Willd. sp. pl. 1. p. 1146.*

*Blandfordia cordata. Bot. rep.* 343.

*Solanandra cordifolia. Vent. malm. 69.*

*Erythrorhiza rotundifolia. Mich. fl. amer. 2. p. 36.*

Icon. *Mich. fl. amer. 2. t. 36. Vent. l. c. Bot. rep.* 343.

On the side of shady hills, near rivulets, in the high mountains of Virginia and Carolina.  $\mathcal{U}$ . May, June. *v. v.* Flowers white, in long and close spikes. In the Virginia mountains this plant is known by the name of *Carpenter's-leaf*, being used in healing all kinds of wounds and cuts.

#### 545. LOBELIA. *Gen. pl.* 1363.

*Dortmanna.*

1. *L. foliis radicalibus linearibus recurvis fistulosis bilocularibus integerrimis, scapo simplici subnudo racemoso, floribus remotis pendulis.*—*Willd. sp. pl. 1. p. 938.*

Icon. *Fl. dan. 39. Engl. bot.* 140.

On Hudson's Bay. *Michaux. \mathcal{U}. July, Aug. *v. s.* Flowers light blue.*

*Kalmii.*

2. *L. tenuis, erecta, simpliciuscula*; foliis radicalibus spatulatis, caulinis linearibus tenuissime denticulatis, floribus racemosis alternis remotis pedicellatis.—*Willd. sp. pl. 1. p. 939.*

In low sa  
 $\mathcal{J}$ .  $\odot$ .

3. *L. erecta*,  
siusculi  
denticul  
*Mich. J.*

Rapuntium

*L. spicata.*

*L. gooden*

In shady v

lina.  $\mathcal{U}$

high; t

4. *L. erecta*,  
spica m  
corollae

*amer. 2.*

On the m

Aug.

two to

5. *L. erecta*,  
ceolatis  
cemosia

dentatis

*L. crassius*

In pine-sw

*v. v.*

dark bl

6. *L. erecta*,  
libus re  
sessilib

*Mich. J.*

In the ra

$\mathcal{U}$ . Jul

flowers

7. *L. erecta*,  
serratis  
reflexis

Icon. Ro

In low gr

New Y

large, t

virtues

into E

In low sandy fields and meadows : Canada to Carolina.  
♂. ☉. July, Aug. v. v. Flowers small, blue.

3. *L. erecta*, simplex, subpubescens; foliis oblongis obtusiusculis, radicalibus integerrimis, caulinis superne denticulatis, racemo virgato, bracteis subulatis.—*Claytoniana*.

*Mich. fl. amer.* 2. p. 153.

*Rapuntium* foliis villosis mollibus, &c. *Gron. virg.* 135.

*L. spicata*. *Lam. encycl.* 3. p. 587.

*L. goodenioides*. *Willd. hort. berol.* 30. cum icone.

In shady woods and on grassy hills : New York to Carolina. ♀. July—Sept. v. v. About eighteen inches high; flowers pale blue, small.

4. *L. erecta*, glaberrima; foliis lato-lanceolatis serratis, spica multiflora secunda, calycis laciniis integerrimis, corollæ laciniis inferioribus ovalibus acutis.—*Mich. fl. amer.* 2. p. 153. *amœna*.

On the mountains of Virginia and Carolina. ♀. July, Aug. v. v. Flowers of a beautiful sky-blue. From two to three feet high.

5. *L. erecta*, subramosa, subpubescens, lucida; foliis lanceolatis glanduloso-serrulatis subcarnosis, floribus racemosis brevi-pedunculatis, calycis laciniis revolutis dentatis.—*Walt. fl. car.* 218. *glandulosa*.

*L. crassiuscula*. *Mich. fl. amer.* 2. p. 152.

In pine-swamps : Virginia to Florida. ♀. July, Aug. v. v. From eight inches to a foot high; flowers dark blue.

6. *L. erecta*, simplicissima, pubescens; foliis oblongo-ovalibus repando-serrulatis, floribus apicatis alternis subsessilibus, germinibus hispidis, calycibus ciliatis.—*Mich. fl. amer.* 2. p. 152. *puberula*.

In the range of mountains, from Virginia to Carolina. ♀. July, Aug. v. v. From one to two feet high; flowers middle size, sky blue.

7. *L. erecta*, simplex, hirtella; foliis ovato-lanceolatis subserratis, racemo folioso, calycibus hirsutis, sinibus reflexis.—*Willd. sp. pl.* 1. p. 945. *Siphilitica*.

*Icon. Rob. ic.* 136. *Jacq. ic.* 3. t. 597.

In low grounds, on the banks of rivers and near springs : New York to Carolina. ♀. July, Aug. v. v. Flowers large, blue. This plant is possessed of great medicinal virtues; on account of which it was introduced into Europe nearly two hundred years ago.

*cardinalis*.

8. *L. erecta, simplex, pubescens; foliis ovato-lanceolatis acuminatis eroso-denticulatis, racemo subsecundo multifloro, genitalibus corolla longioribus.*—*Willd. sp. pl.* 1. p. 944.

Icon. *Bot. mag.* 320. *Rob. ic.* 137. *Knorr delic.* 2. t. L. 2.

In swamps and meadows near springs: Canada to Carolina.  $\mathcal{U}$ . July—Sept. *v. v.* This beautiful plant, with its bright scarlet flowers, rises to the height of from two to four feet. I have seen a white variety of it.

*fulgens*.

9. *L. erecta, simplex, subpubescens; foliis elongato-lanceolatis attenuatis subintegerrimis, racemo multifloro, genitalibus longitudine corollæ.*—*Donn. catal.*

Icon. *Bot. rep.* 659.

On the Mississippi.  $\mathcal{U}$ . June, July. *v. v.* in *Hortis*. This species exceeds in splendour of colour and in size the preceding one.

*inflata*.

10. *L. erecta, ramosa, hirsutissima; foliis ovatis serratis, racemis foliosis, capsulis inflatis.*—*Willd. sp. pl.* 1. p. 946.

In fields and woods, common: Canada to Carolina.  $\odot$ . June—Aug. *v. v.* Flowers blue, small.

*Cliffortiana*.

11. *L. glabra, superne ramosa; foliis petiolatis ovatis crenato-dentatis, infimis suborbiculatis, racemis laxis, pedunculis elongatis.*—*Willd. sp. pl.* 1. p. 946.

Icon. *Plum. ic.* 235. f. 2.

In old fields: Virginia.  $\odot$ . June, July. *v. v.* Flowers very small, purple.

## II. DECANDRIA.

546. GERANIUM. *Gen. pl.* 1118.

*maculatum*.

1. *G. erectum, retrorsum pubescens; caule dichotomo, foliis oppositis 3—5-partitis incis, summis sessilibus, pedunculis elongatis bifloris, petalis obovatis.*—*Willd. sp. pl.* 3. p. 705.

Icon. *Cavan. diss.* 4. t. 86. f. 2. *Dill. elth. t.* 132. f. 159.

In shady woods and meadows: Canada to Carolina.  $\mathcal{U}$ . May—July. *v. v.* Flowers purple, large. This

species  
the nar  
taste of  
in curi  
very p

2. *G. diffusum, trifidum, talis em*

*G. lanug*  
Icon. *G*

*elth. t.*  
In fields:  
Flower

3. *G. diffusum, 3-fidum, petalis pilosis,*

Icon. *Ca*  
In fields:  
rose-co

4. *G. diffusum, tisque integris, culatis*

Icon. *Fl.*  
In shady

ginia;  
red.  
that h  
though

1. *H. foliosum, candri*  
*Willd.*  
Icon. *B*  
*car. 1*

species is known in some parts of the mountains by the name of *Alum-root*, on account of the astringent taste of its roots, which are very successfully employed in curing the flux among children, which is a disease very prevalent in those countries.

2. *G. diffusum*, pubescens; foliis oppositis 5-lobis, lobis *carolinianum*. trifido-incisis, pedunculis bifloris subfasciculatis, petalis emarginatis longitudine calycis aristati, arillis villosis.—*Willd. sp. pl.* 3. p. 711.

*G. lanuginosum*. *Jacq. hort. schænb.* 2. t. 140.

Icon. *Cavan. diss.* 4. t. 84. f. 1. & t. 124. f. 2. *Dill. elik.* t. 135. f. 162.

In fields: Virginia to Georgia. ♂. June, July. v. v. Flowers small, white, with red veins.

3. *G. diffusum*, pubescens; foliis oppositis 3-partitis, lobis 3-fidis incisis linearibus, pedunculis bifloris elongatis, petalis emarginatis longitudine calycis aristati, arillis pilosis, pilis glandulosis.—*Willd. sp. pl.* 3. p. 712.

Icon. *Cavan. diss.* 4. t. 78. f. 2.

In fields: New York. ☉. June, July. v. v. Flowers rose-coloured, larger than the foregoing one.

4. *G. diffusum*, hirsutum; foliis oppositis ternatis quinquatisque trifido-pinnatifidis, pedunculis bifloris, petalis integris calyce aristato duplo longioribus, arillis reticulatis.—*Willd. sp. pl.* 3. p. 714.

Icon. *Fl. dan.* 694. *Cavan. diss.* 4. t. 86. f. 1.

In shady moist places, on rocks: New York to Virginia; rare. ♂. June—Aug. v. v. Flowers pale red. It is singular, that the American plant has not that heavy scent the European is so well known by, though its other characters agree exactly.

*dissectum.*

*robertianum.*

### III. POLYANDRIA.

#### 547. HALEZIA. *Gen. pl.* 814.

1. *H. foliis ovatis acuminatis argute serratis, floribus dodecandris, fructu subæqualiter rhomboideo-tetraptero.*—*Willd. sp. pl.* 2. p. 849.

Icon. *Bot. mag.* 910. *Cavan. diss.* 6. t. 186. *Catesb. car.* 1. t. 64.

*tetraptera.*

- In shady woods, on the banks of rivers: Carolina. *h.* April, May. *v. v.* A handsome small tree; flowers white, resembling those of Snow-drops, from which it has been called *Snow-drop Tree* or *Silver-bell Tree*.
- diptera.* 2. *H. foliis oblongo-ovatis obtuse-acuminatis membranaceis, floribus octandris, fructu subelliptico, alis alternis majoribus.*—*Willd. sp. pl.* 2. p. 849.  
Icon. *Cavan. diss.* 6. t. 187.  
In shady forests of Georgia. *h.* April, May. *v. v. s.* *fl.*; *v. s.* in *Herb. Lyon.* Flowers larger than the preceding species.
- parviflora.* 3. *H. fructu inæqualiter subtetraptero clavato floribusque parvulis.*—*Michx. fl. amer.* 2. p. 40.  
In Florida near Matanza. *Michaux.* *h.* +.

548. STYRAX. *Gen. pl.* 753.

- grandiflorum.* 1. *S. foliis lato-obovatis acuminatis subtus tomentosis, racemis multifloris elongatis, pedunculis inferioribus axillaribus solitariis unifloris.*—*Willd. sp. pl.* 2. p. 622.  
*S. officinale.* *Walt. fl. car.* 140.  
*S. grandiflorum.* *Michx. fl. amer.* 2. p. 41.  
In woods, on the banks of rivers: Virginia to Georgia. *h.* June—Aug. *v. v.* A fine ornamental shrub, as the two following likewise are; flowers white.
- pulverulentum.* 2. *S. foliis subsessilibus ovalibus s. obovatis obtusis subtus pulverulento-tomentosis, floribus axillaribus et subterno-terminalibus brevissime pedicellatis.*—*Michx. fl. amer.* 2. p. 41.  
*S. lævigatum.* *Bot. mag.* 921.  
In woods of Virginia and Carolina. *h.* June—Aug. *v. v.* Resembles the foregoing one. The figure referred to represents the present species, *S. lævigatum* or the following species has to my knowledge not yet been introduced into Europe.
- glabrum.* 3. *S. foliis ovali-lanceolatis utrinque acutis glabris, pedunculis axillaribus unifloris solitariis binisve.*—*Cavan. diss.* 6. t. 188. f. 1.  
*S. lævigatum.* *Willd. sp. pl.* 2. p. 624.  
*S. americanum.* *Lam. encycl.* 1. p. 82.  
*S. læve.* *Walt. fl. car.* 140.  
In the swamps of Virginia and Carolina. *h.* July, Aug. *v. v.* Not above three or four feet high; the number of stamina is from six to ten.

1. *H. foliis o*  
aggrega  
Sympleoc  
Icon. *Mich*  
In low wo  
*v. v.* A  
which t  
neath;  
The lea  
taste; f  
inhabita

550

1. *G. foliis la*  
floribus  
natis.—  
Hypericum  
Icon. *Bot.*  
t. 161.  
f. 3.  
In cedar-s  
rida. *h.*  
green tre  
2. *G. foliis o*  
membra  
cis.—*W*  
*G. Franklini*  
*Franklinia*  
*Lacathea fl*  
Icon. *Cav*  
On the ba  
Georgia  
whose l  
a most  
very sou  
norther

551. S

1. *S. foliis ov*  
cibus ov  
*S. Malach*

549. HOPEA. *Gen. pl.* 1222.

1. *H. foliis oblongo-lanceolatis glaucis, floribus axillaribus aggregatis brevissime pedicellatis.*—*Linn. mant.* 105.  
*Symplocos tinctoria. Willd. sp. pl. 3. p. 1436.*  
*Icon. Mich. arb. t. . . . Catesb. car. 1. p. 54.*  
 In low woods of Virginia and Carolina. *h.* April, May.  
*v. v.* A small tree or shrub, variable in size, of which there is a variety with leaves pubescent underneath; flowers yellow, small, very sweet scented. The leaves dye a very fine yellow, and have a sweet taste; from which circumstance it is known by the inhabitants under the name of *Sweet-leaf.* *tinctoria.*

550. GORDONIA. *Gen. pl.* 1144.

1. *G. foliis lanceolato-oblongis glaberrimis nitidis coriaceis, floribus longe pedunculatis, capsulis conoideis acuminate.*—*Willd. sp. pl. 3. p. 840.*  
*Hypericum Lasianthus. Sp. pl.* 1101.  
*Icon. Bot. mag. 668. Mich. arb. t. . . . Cavan. diss. 6. t. 161. Catesb. car. 1. t. 44. Pluk. amalth. t. 352. f. 3.*  
 In cedar-swamps, near the sea-coast: Virginia to Florida. *h.* Aug—Sept. *v. v.* A beautiful small evergreen tree; flowers white, the size of a rose. *Lasianthus.*
2. *G. foliis obovato-lanceolatis subtus pubescentibus submembranaceis, floribus subsessilibus, capsulis sphaericis.*—*Willd. sp. pl. 3. p. 841.*  
*G. Franklinia. Willd. sp. pl. 3. p. 841.*  
*Franklinia Alatomaha. Marsh. arb. 48.*  
*Lacathea florida. Parad. lond. 56. cum icone.*  
*Icon. Cavan. diss. t. 162. Mich. arb. t. . . .*  
 On the banks of the Alatomaha, near Fort Barrington, Georgia. *h.* Aug. Sept. *v. v.* This elegant tree, whose large white flowers with yellow anthers have a most agreeable appearance, though a native of a very southern latitude, is able to stand a considerable northern climate. *pubescens.*

551. STUARTIA. *Gen. pl.* 1142 & 1143.

1. *S. foliis ovatis acutis, floribus axillaribus subbinis, calycibus ovatis obtusis, petalis integris, stylis coalitis.* *virginica.*  
*S. Malachodendron. Willd. sp. pl. 3. p. 840.*

*Stewartia virginica*. *Cavan. diss.* 5. t. 159. f. 2.

*Stewartia marilandica*. *Bot. rep.* 397.

Icon. *L'Herit. stirp.* 1. t. 73. *Catesb. car.* 3. t. 13. *Duham. arb.* 2. t. 78.

In swamps in the lower counties of Virginia and Carolina.  $\frac{1}{2}$ . July—Sept. *v. v.* From five to seven feet high, very ornamental; flowers large, white. There are a number of varieties, with more or less serrated leaves, more or less pubescent, &c.

*pentagyna*.

2. *S. foliis ovatis acuminatis, floribus axillaribus solitariis, calycibus lanceolatis calyculatis, petalis undulato-incisis, stylis distinctis.*—*Willd. sp. pl.* 3. p. 840.

*Malachodendron ovatum*. *Cavan. diss.* 5. t. 158. f. 2.

Icon. *Exot. bot.* 101. *L'Herit. stirp.* 1. t. 74. *J. Miller. ic.* 3.

In the mountains of Carolina and Georgia.  $\frac{1}{2}$ . Aug. *v. v.* This beautiful shrub, whose large flowers are of a cream colour, deserves a place in the collection of every admirer of ornamental shrubs. It has generally been considered as a distinct genus; but I follow Dr. Smith's observations in *Exotic Botany*, considering it always unnecessary to split a small genus on slight differences, though the same differences might be sufficient reasons for establishing a distinction where the genus is numerous.

552. SIDA. *Gen. pl.* 1129.

*spinosa*.

1. *S. caule patulo, axillis subspinosis, foliis longe petiolatis ovato-lanceolatis obsolete cordatis dentatis, pedunculis solitariis axillaribus, stipulis setaceis pedunculo longioribus, capsulis birostratis.*—*Willd. sp. pl.* 3. p. 736. Icon. *Cavan. diss.* 1. t. 1. f. 9. *Pluk. alm.* t. 9. f. 6. Among rubbish and on road-sides; Pennsylvania to Carolina.  $\odot$ . July, Aug. *v. v.* Flowers yellow, small.

*hispida*.

2. *S. hispido-pilosa; foliis lanceolatis serratis, pedunculis solitariis axillaribus longitudine petiolorum, calyce exteriori filiformi.* In sandy plains of Georgia. *Lyon. M. v. s. in Herb. Lyon.* Flowers yellow.

*rhombifolia*.

3. *S. foliis oblongo-lanceolatis dentatis basi cuneiformibus integerrimis, pedunculis petiolis multo longioribus, capsulis bicornibus.* *Willd. sp. pl.* 3. p. 740. Icon. *Cavan. diss.* 1. t. 3. f. 12. *Dill. elth.* t. 172. f. 212.

In cult  
Flori  
low,  
4. *S. foliis  
silibu  
feris  
Will  
Icon. C  
On the  
Flow  
5. *S. foliis  
tosia,  
biaris  
Icon. S  
In cult  
July,  
6. *S. foliis  
tis d  
acum  
Napæa  
Napæa  
Icon. C  
In shad  
M. J  
flowe  
7. *S. foliis  
denta  
sp. pl  
Napæa  
Napæa  
Icon. C  
In stony  
July,  
8. *S. foliis  
bus p  
hispid  
In stony  
Aug.  
55  
1. *C. und  
3—5  
caule******

In cultivated grounds and among rubbish: Virginia to Florida. ☉. h. June—Aug. v. v. Flowers yellow, small.

4. S. foliis oblongo-cordatis acuminatis crenatis summis sessilibus, pedunculis solitariis petiolo longioribus fructiferis deflexis, capsulis inflatis muticis undulato-crispis. *Willd. sp. pl. 3. p. 747.*

Icon. *Cavan. diss. 1. t. 7. f. 1. Dill. elth. t. 5. f. 5.*

On the sea-coast of Carolina. ☉. July—Sept. v. v. Flowers white, small.

*crispa.*

5. S. foliis subrotundo-cordatis acuminatis dentatis tomentosis, pedunculis solitariis petiolo brevioribus, capsulis biaristatis truncatis. *Willd. sp. pl. 3. p. 750.*

Icon. *Schkuhr handb. 190.*

In cultivated grounds: Pennsylvania to Carolina. ☉.

July, Aug. v. v. A tall plant; flowers dark yellow.

*Abutilon.*

6. S. foliis cordatis 5-lobis glabris, lobis oblongis acuminatis dentatis, pedunculis multifloris, capsulis muticis acuminatis. *Willd. sp. pl. 3. p. 766.*

*Napaea laevis. Syst. veg. 750.*

*Napaea hermaphrodita. Sp. pl. 965.*

Icon. *Cavan. diss. 5. t. 132. f. 1. Herm. lugdb. t. 23.*

In shady rocky places: Pennsylvania to Virginia; rare.

July—Sept. v. v. From two to four feet high; flowers white.

*Napaea.*

7. S. foliis 7-lobo-palmatis scabris, lobis lanceolatis incisedentatis, floribus dioicis corymbosis bracteatis. *Willd. sp. pl. 3. p. 766.*

*Napaea scabra. Syst. veg. 750.*

*Napaea dioica. Sp. pl. 965.*

Icon. *Cavan. diss. 5. t. 132. f. 2. Ehret. pict. 7 & 8.*

In stony ground, in the upper parts of Virginia. July, Aug. v. v. Flowers white.

*dioica.*

8. S. foliis inferioribus triangulo-cordatis incisiss, superioribus palmato-multifidis, corymbo terminali, calycibus hispidis. *Michx. fl. amer. 2. p. 44.*

In stony fields of Kentucky, Tennessee, &c. July, Aug. v. s. Resembles in habit *Malva Alcea*.

*alcæoides.*

# 553. CRISTARIA. *Cavan. ic. 5. p. 10.*

1. C. undique cano-tomentosa et pilis stellatis obsita; foliis 3—5-fidis, laciniis incisiss acutis, racemis terminalibus, caule diffuso.

*coccinea.*

*Malva coccinea*. *Fraser. catal.*

On the dry prairies and extensive plains of the Missouri.

♂. Aug. Sept. *v. v.*; *v. s.* in *Herb. Lewis*. Flowers scarlet.

*Caulis* teres, subpedalis, ramosus, ramis diffusis, tomentosis, pilis stellatis distinctis obsitis, uti tota planta. *Folia* alterna, petiolata, palmato-3—5-partita: laciniis subpinnatifido-incisis, lobis sinubusque acutis. *Petioles* teretes, longitudine folii. *Stipulae* lineares, erectae, marcescentes. *Flores* terminales, racemosi, coccinei, diametro pollicari. *Calyx* 5-fidus, laciniis lanceolatis acutis. *Petala* 5, oblique cuneato-obcordata, subungiculata, ad unguis fasciculato-villosa, calyce duplo longiora. *Filamenta* monadelphia, numerosa, in columnam brevem connata, superne libera, patentia. *Styli* circiter 10. *Fructus* orbiculatus.

The singularly stellated fasciculi of hair, placed on the close tomentum, and its bright scarlet flowers, make this plant particularly interesting.

554. MALVA. *Gen. pl.* 1134.

- abutiloides*. 1. *M. foliis* 5-angulari-lobatis tomentosis, pedunculis sub-4-floris bifidis axillaribus, capsulis polyspermis. *Willd. sp. pl.* 3. p. 780.  
Icon. *Jacq. hort. schænbr.* 3. t. 293. *Cavan. diss.* 2. t. 16. f. 2.  
On the sea-coast of Carolina. ♂. June—Aug. *v. v.*  
Flowers large, purple.
- caroliniana*. 2. *M. foliis* 5-lobis palmatisve inciso-dentatis, pedunculis petiolo longioribus, petalis integris, fructu villosa, caule prostrato. *Willd. sp. pl.* 3. p. 784.  
Icon. *Cavan. diss.* 2. t. 15. f. 1. *Dill. elth. t.* 4. f. 4. *Schkuhr handb.* 192.  
In fields: Virginia and Carolina. ☉. July—Sept. *v. v.*  
Flowers dark red.
- rotundifolia*. 3. *M. caule* prostrato, foliis cordato-orbiculatis obsolete 5-lobis, pedunculis fructiferis declinatis. *Willd. sp. pl.* 3. p. 786.  
Icon. *Fl. dan.* 721. *Cavan. diss.* 2. t. 26. f. 3. *Schkuhr handb.* 1.  
In cultivated grounds: Pennsylvania to Virginia. ♂. June—Sept. *v. v.* Flowers white, small.

1. *M. foliis*  
pedu  
p. 79  
Icon.  
*Rob.*  
In Caro  
plant  
drawn  
Walt

1. *H. foliis*  
vibus  
calycis  
pl. 3.  
*H. palus*  
Icon. *C.*  
*H. pal*

In swan  
plentif  
dago,  
large,  
pale p

2. *H. foliis*  
subtus  
gioribu  
Icon. *Ca*  
In swam  
—Oct.  
been g  
very di

3. *H. foliis*  
utrinqu  
toment  
2. p. 4  
In salt-m  
of the  
very la  
fructifi

4. *H. foliis*  
no-tom  
mentos

555. MALOPE. *Gen. pl.* 1136.

1. *M. foliis oblongis obtusis integris crenatis supra glabris, pedunculis solitariis axillaribus.* *Willd. sp. pl.* 3. p. 799. *malacoides*  
*Icon. Cavan. diss. 2. t. 27. f. 1. Sabb. hort. 1. t. 50.*  
*Rob. ic. 189.*  
 In Carolina. *Walter. C.* +. Though I doubt of this plant having been found in America, yet it is worth drawing the attention of the botanist to find out what *Walter* means by it.

556. HIBISCUS. *Gen. pl.* 1139.

1. *H. foliis ovatis acuminatis serratis subtrilobis sub-5-nervibus subtus incano-tomentosis, pedunculis floriferis, calycibus tomentosis, capsulis glabris.*—*Willd. sp. pl.* 3. p. 806. *Moscheutos*  
*H. palustris. Walt. fl. car. 176.*  
*Icon. Cavan. diss. 3. t. 65. f. 1. Bot. mag. 882. sub H. palustri.*  
 In swamps and salt-marshes: New York to Carolina; plentifully in the marshes round the Salt-lake, Onondago, New York. *U.* Aug.—Oct. *v. v.* Flowers large, white, with a purple bottom, or sometimes pale purple.  
 2. *H. foliis lato-ovatis obtuse-serratis subtrilobis 3-nervibus subtus tomentosis, pedunculis axillaribus petiolo longioribus.*—*Willd. sp. pl.* 3. p. 808. *palustris.*  
*Icon. Cavan. diss. 3. t. 65. f. 2.*  
 In swamps and marshes: Canada to Virginia. *U.* Aug.—Oct. *v. v.* Flowers large, purple. This plant has been generally confounded with the former, but is very distinct.  
 3. *H. foliis amplis coriaceis triangulato-cordatis trilobis utrinque eximie tomentosis subtus incanis, capsulis tomentoso-hirsutissimis subtruncatis.*—*Michx. fl. amer.* 2. p. 46. *grandiflorus.*  
 In salt-marshes of Georgia and Florida, and on the banks of the Mississippi. *U.* Aug.—Oct. *v. v.* Flowers very large, flesh-coloured, with a red bottom; the fructifications yellow.  
 4. *H. foliis ovatis acuminatis obtuse serratis utrinque incano-tomentosis, pedunculis axillaribus, calycibus tomentosis subæqualibus.*—*Willd. sp. pl.* 3. p. 807. *incanus.*

Icon. *Wendl. hort. herrenh.* 4. t. 24. *Bartr. ic. ined. in Mus. Banks.*

In Carolina.  $\mathcal{U}$ . Sept. +. Flowers very large, sulphur-coloured.

*esculentus*.

5. *H. foliis cordatis 5-lobis obtusiusculis dentatis, petiolis flore longioribus, calycibus exterioribus subdecaphyllis deciduis, interioribus longitudinaliter rumpentibus. Willd. sp. pl. 3. p. 827.*

Icon. *Cavan. diss.* 3. t. 61. f. 2. *Comm. hort.* 1. t. 19. In cultivated grounds: Virginia and Carolina.  $\odot$ . June—Sept. *v. v.* Flowers yellow. It is generally cultivated by the name of *Okra* for the sake of its unripe capsules, which give a fine dish for the table.

*virginicus*.

6. *H. induratus, tomentosus, asper; foliis acuminatis inæqualiter dentatis, inferioribus cordatis indivisis, superioribus cordatis oblongis trilobis, pedunculis axillaribus et racemoso-terminalibus, floribus cernuis, pistillis nutantibus. Willd. sp. pl. 3. p. 831.*

*H. clypeatus. Walt. fl. car.* 177.

Icon. *Jacq. ic. rar.* t. 142. *Pluk. phyt.* t. 6. f. 4.

In salt-marshes, on the sea-coast: New Jersey to Carolina.  $\mathcal{U}$ . Aug. Sept. *v. v.* Flowers small, rose-coloured.

*militaris*.

7. *H. glaberrimus; foliis 3-lobis hastatis acuminatis serratis, corolla tubulato-campanulata, capsulis ovatis acuminatis glabris, seminibus holosericeis.—Willd. sp. pl. 3. p. 808.*

*H. lævis. Scop. del. insub.* 3. t. 17.

*H. virginicus. Walt. fl. car.* 177.

*H. hastatus. Mich. fl. amer.* 2. p. 45.

*H. riparius. Pers. syn.* 2. p. 254.

Icon. *Scop. del. insub.* 3. t. 17. *Cavan. diss.* 6. t. 198. f. 2.

On the banks of rivers in Louisiana and the western parts of Pennsylvania and Carolina.  $\mathcal{U}$ . Aug. Sept. *v. v.* Flowers purple, large.

*speciosus*.

8. *H. glaberrimum; foliis palmato-5-partitis, laciniis lanceolatis acuminatis apice remote serratis, calycibus exterioribus decaphyllis, corolla patula, capsula glabra 5-gono-ovata.—Willd. sp. pl. 3. p. 822.*

*H. coccineus. Walt. fl. car.* 177.

Icon. *Bot. mag.* 360. *Wendl. hort. herrenh.* t. 11.

On the banks of rivers of South Carolina and Florida.  $\mathcal{U}$ . Aug. Sept. *v. v.* A most elegant peren-

nial. When in high perfection, the stem will rise to more than eight feet, and the deep scarlet flowers grow to a larger size than any other Hibiscus I know.

9. *H. caule petiolisque inermibus, foliis palmato-digitatis 7-partitis, laciniis linearibus, pedunculis hispidis, calyce exteriore 1-phylo, interiore hinc lacero, capsula hirsutissima pyramidata.*—*Willd. sp. pl.* 3. p. 325.

Icon. *Cavan. diss.* 3. t. 63. f. 2. *Dill. elth.* t. 156. f. 189.

On the banks of the Mississippi.  $\mathcal{U}$ . July—Sept. *v. v.*

Flowers sulphur-yellow, with a purple bottom, very large when in rich soil.

10. *H. caule scabro, foliis asperis basi truncatis circumscriptione subrotundis, superioribus palmatis, lobis superne dilatatis crenatis, floribus subsessilibus, calycibus hispidissimis exteriore furcellato.* *Mich. fl. amer.* 2. p. 45.

*H. aculeatus. Walt. fl. car.* 177.

Near the sea-coast, in marshes: Carolina to Florida.  $\mathcal{U}$ .

July—Sept. *v. v.* Flowers very handsome and large, bright yellow with a dark purple bottom.

*Manihot.*

*scaber.*

## XVI. DIADELPHIA.

### I. PENTANDRIA.

557. PETALOSTEMUM. *Pet.* 4. staminibus interjecta : utraque in tubum fissum connata. *Vexillum* nullum, ejus loco quintum petalum. *Legum.* calyce tectum, 1-spermum.

### II. HEXANDRIA.

558. CORYDALIS. *Cal.* diphyllus. *Cor.* ringens. *Filam.* 2. membranacea, singula *Antheris* 3. *Caps.* siliquosa, polysperma.  
559. FUMARIA. *Cal.* diphyllus. *Cor.* irregularis, basi calcarata. *Filam.* 2. singula *Antheris* 3. *Caps.* 1-locularis, evalvis, 1-sperma.

### III. OCTANDRIA.

560. POLYGALA. *Cal.* 5. phyllus : foliolis duobus alæformibus, coloratis. *Caps.* obcordata, 2-locularis, 2-valvis.

### IV. DECANDRIA.

\* *Stamina omnia connexa.*

561. AMORPHA. *Cal.* campanulatus, 5-fidus. *Cor.* vexillum ovatum, concavum. *Alæ* *Carinaque* nullæ. *Legum.* 2-spermum, falcatum.  
562. ERYTHRINA. *Cal.* 2-lobatus. *Cor.* vexillum longissimum, lanceolatum. *Legumen* torulosum.  
563. LUPINUS. *Cal.* 2-labiatus. *Anth.* 5. oblongæ, 5. subrotundæ. *Legum.* coriaceum.  
564. CROTALARIA. *Cor.* vexillum cordatum, magnum, carina acuminata. *Filam.* connata cum fissura dorsali. *Legum.* pedicellatum, turgidum.

\*\*

565. PHAS  
raliter  
566. DOL  
alas  
567. PISUL  
plica  
supr  
568. LAT  
Styl  
569. VICIA  
ferne  
tum.

\*\*\*

570. ASTR  
aut s  
571. OXYT  
nens.  
super  
572. APIOS  
illum  
dentic  
men  
inter

\*\*\*\*

573. DALE  
et Ca  
Stam  
brevi  
574. PSOR  
diade  
575. MELI  
simp  
gius,  
576. TRIFO  
4-spe  
577. LUPIN  
denti  
tum.  
578. STYL  
rollif  
culat

\*\* *Stigma pubescens.* (Nec priorum notæ.)

565. PHASEOLUS. *Carina* cum *Staminibus Styloque* spiritaliter torta.
566. DOLICHOS. *Vexilli* basis callis 2. parallelis oblongis, *alas* subtus comprimentibus.
567. PISUM. *Cal.* laciniae foliaceae aequales. *Vexillum* plicas 2. protrudens. *Stylus* compressus, carinatus, supra villosus. *Legum.* ad suturas nudum.
568. LATHYRUS. *Cal.* laciniae superiores 2. breviores. *Stylus* planus, supra villosus, superne latior.
569. VICIA. *Cal.* superne emarginatus, 2-dentatus, inferne dentibus 3. rectis longis. *Vexillum* emarginatum. *Stigma* latere inferiore transverse barbatum.

\*\*\* *Legumen subbiloculare.* (Nec priorum.)

570. ASTRAGALUS. *Carina* obtusa. *Legum.* biloculare aut subbiloculare, sutura inferiore introflexa.
571. OXYTROPIS. *Carina* in mucronem superne desinens. *Legum.* biloculare aut subbiloculare, sutura superiore introflexa.
572. APIOS. *Cal.* campanulatus, bilabiatus. *Carina* vexillum reflectens. *Appendix*: tubulus ex centro disci, denticulatus, vaginans basin stipitis germi. *Legumen* coriaceum, biloculare, dissepimento seminibus interceptum.

\*\*\*\* *Legumina submonosperma.* (Nec priorum.)

573. DALEA. *Cal.* glandulosus, subsemi-5-fidus. *Alae* et *Carina* columnae staminum adnatæ. *Vexill.* breve. *Stam.* omnia connata. *Legum.* 1-spermum, calyce brevius.
574. PSORALEA. *Cal.* longitudine leguminis. *Stam.* diadelphe. *Legum.* 1-spermum, subrostratum, evalve.
575. MELILOTUS. *Cal.* tubulosus, 5-dentatus. *Carina* simplex, alis et vexillo brevior. *Legum.* calyce longius, rugosum. *Flores* racemosi.
576. TRIFOLIUM. *Legum.* calyce tectum, evalve, 2—4-spermum. *Flores* subcapitati.
577. LUPINASTER. *Cal.* campanulatus, 5-dentatus, dentibus setaceis, uno sub carina. *Stigma* uncinatum. *Legum.* enode, teres, polyspermum.
578. STYLOSANTHES. *Cal.* tubulosus, longissimus, corollifer. *Germen* sub corolla. *Lomentum* 1-2-articulatum, hamatum.

579. GLYCYRRHIZA. *Cal.* 2-labiatus, basi gibbus. *Cor.* vexillum alas et carinam includens. *Legum.* ovatum, compressum, hispidum, 2—4-spermum.
580. LESPEDEZA. *Cal.* 5-partitus, lacinii subæqualibus. *Cor.* carina transverse obtusa. *Legum.* lenticulare, inerme, 1-spermum.

\*\*\*\*\* *Legumen in articulos secedens.* (Nec priorum.)

581. HEDYSARUM. *Cal.* 5-fidus. *Cor.* carina transverse obtusa. *Lomentum* pluri-articulatum : articulis 1-spermis, compressis, ut plurimum hispidis.
582. ZORNIA. *Cal.* campanulatus, 2-labiatus. *Vexillum* cordatum, revolutum. *Antheræ* alternæ oblongæ, alternæ globosæ. *Lomentum* articulatum, hispidum.
583. ÆSCHYNOMENE. *Cal.* bilabiatus. *Lomentum* compressum, sutura altera recta, altera lobata, articulis truncatis, 1-spermis.
584. SESBANIA. *Cal.* dentibus subæqualibus. *Legum.* elongatum, subcylindricum, 2-valve.

\*\*\*\*\* *Legumen uniloculare polyspermum.* (Nec priorum.)

585. GLYCINE. *Cal.* bilabiatus : dente labii inferioris longiore. *Cor.* carina apice vexillum reflectens. *Stylus* incurvus. *Legum.* oblongum, compressum.
586. GALACTIA. *Cal.* 4-dentatus, 2-bracteatus. *Petala* omnia oblonga, vexillo latiore incumbente. *Stigm.* obtusum. *Legum.* teres. *Sem.* subrotunda.
587. CLITORIA. *Cal.* tubuloso-campanulatus. *Cor.* resupinata : vexillo maximo, patente, alas obumbrante. *Legum.* lineare, longissimum, acuminatum.
588. ROBINIA. *Cal.* 4-fidus, lacinia superiore bipartita. *Vexillum* reflexo-patens, subrotundum. *Legum.* gibbum, elongatum.
589. INDIGOFERA. *Cal.* patens. *Cor.* carina utrinque calcari subulato patulo. *Legum.* lineare, parvulum, teres, subquadrangulare.
590. TEPHROSIA. *Cal.* dentibus subulatis, subæqualibus. *Siam.* monadelpha. *Legum.* compressum, subcoriaceum.
591. LOTUS. *Cal.* tubulosus. *Alæ* sursum longitudinaliter conniventes. *Filam.* cuneiformia. *Legum.* cylindricum, strictum.
592. MEDICAGO. *Carina* corollæ a vexillo deflectens. *Legum.* compressum, cochleatum.

557. P

1. P. spic  
caly  
amen  
Dalea c  
Icon.  
In Ten  
24.  
whit

2. P. spic  
tudid  
cibus  
p. 4  
In pine  
v. s.

3. P. spic  
æqua  
seric  
p. 5  
Dalea  
Icon.  
In Ten  
24.  
spik

4. P. spic  
caly  
jugia  
Dalea  
In Ge  
Ens

5. P. cap  
cory  
ticis  
Dalea  
Kuhni  
Kuhni  
In pin

I. PENTANDRIA.

557. PETALOSTEMUM. *Mich. fl. amer. 2. p. 48.*

*Dalea. Juss. gen. pl. 392.*

1. *P. spica cylindrica pedunculata, bracteis flore longioribus, calycibus glabris, foliis trijugis lanceolatis.—Mich. fl. amer. 2. p. 49.* *candidum.*

*Dalea candida. Willd. sp. pl. 3. p. 1337.*

*Icon. Mich. l. c. t. 37. f. 1.*

In Tennessee, Illinois, and on the banks of the Missouri. *fl. July, Aug. v. s. in Herb. Lewis. &c.* Flowers white.

2. *P. spica cylindrica pedunculata, bracteis subulatis longitudine calycis, bracteolis setaceis persistentibus, calycibus glabris, foliolis lanceolatis.—Mich. fl. amer. 2. p. 49.* *carneum.*

In pine-barrens of Georgia and Florida. *fl. July, Aug. v. s. in Herb. Engelm. &c.*

3. *P. spica cylindrica pedunculata, bracteis calycem subæquantibus, bracteolis spatulatis deciduis, calycibus sericeis, foliis bijugis linearibus.—Mich. fl. amer. 2. p. 50.* *violaceum.*

*Dalea violacea. Willd. sp. pl. 3. p. 1337.*

*Icon. Mich. l. c. t. 37. f. 2.*

In Tennessee, Illinois, and on the banks of the Missouri. *fl. July—Sept. v. v.* A beautiful plant; the close spikes are of a delicate rose-purple.

4. *P. spicis cylindricis pedunculatis terminalibus, bracteis calyce brevioribus, calycibus villosis, foliis sub-10-jugis ellipticis retusis mucronatis.* *alopecuroidum.*

*Dalea alopecuroides. Willd. sp. pl. 3. p. 1336.*

In Georgia and Florida. *fl. July, Aug. v. s. in Herb. Engelm.* Flowers pale blue.

5. *P. capitulis squamoso-involucratis, pedunculis paniculato-corymbosis, calycibus plumosis, foliolis linearibus muticis.—Mich. fl. amer. 3. p. 50.* *corymbosum.*

*Dalea Kuhnistera. Willd. sp. pl. 3. p. 1337.*

*Kuhnistera carolinensis. Lam. encycl. 3. p. 371.*

*Kuhnizæ affinis pinnata. Walt. fl. car. 103.*

In pine-barrens of Carolina and Georgia. *fl. June—*

Ang. *v. v.* Flowers white. This singular plant appears, at first sight, to belong to the class Syngenesia, and certainly is the connecting link between that class and the present.

## II. HEXANDRIA.

558. CORYDALIS. *Vent. choix de pl.* 19.

*Fumaria*. *Gen. pl.* 1154.

\* *Corollis bicalcaratis*. *Perizomanthi*.

*Cucullaria*.

1. C. scapo nudo, racemo simplici secundo, nectariis divaricatis longitudine corollæ, stylo incluso, radice bulbosa.  
—*Pers. syn.* 2. p. 269.

*Fumaria Cucullaria*. *Willd. sp. pl.* 3. p. 857.

*Icon. Bot. mag.* 1127. *Rob. ic.* 222. *Pluk. alm.* t. 90. f. 3.

On the side of shady hills, in rich vegetable mould, among rocks: Canada to Virginia. *℥.* May. *v. v.* Flowers white, with a yellow mouth. This singularly constructed flower is known among the inhabitants by the name of *Breeches-flower* or *Yellow-breeches*; and as I consider that all those species with two spurs or nectaries might form, with propriety, a good genus, I have given it the name of *Perizomanthus*.

*formosa*.

2. C. scapo nudo, racemo subcomposito nutante multifloro, nectariis brevissimis incurvis, stylo porrecto, laciniis foliorum oblongis inciso-pinnatifidis, radice tuberosa.

*Icon. Bot. rep.* 393. *Bot. mag.* 1335. sub *Fumaria*.

In Canada, and on the highest peaks of the Virginia and Carolina mountains, in the cliffs of shady rocks. *℥.* May—July. *v. v.* Flowers a lively bright red. This elegant perennial deserves a place in every collection. The Canada plant is somewhat different in aspect from the Virginian, but not sufficiently distinct to make it a species.

*tenuifolia*.

3. C. scapo nudo, racemo simplici nutante paucifloro, nectariis brevissimis incurvis, stylo longe exerto, foliis tenuissime laciniatis, radice tuberosa.

On the north-west coast. *℥.* June. *v. s.* in *Herb.*

*Lamber*  
same sh

4. C. caule s  
corymb  
—*Pers.*

*Fumaria f*

*Fumaria r*

In moist a

da and

licate tw

abundan

5. C. caule r  
racemis

nearibus

p. 269.

*Fumaria s*

*Icon. Bot*

In the cliff

mountai

handsom

6. C. caule r

lineari-

bracteis

bus tur

enum. 7

On shady

July.

the size

ing spec

5

1. F. caule r  
cuneifo

p. 867.

*Icon. Fl.*

In cultiv

⊙. Ma

with gr

*Lambert. specimen Pallasianum.* Flowers of nearly the same shape and colour as the foregoing species.

4. *C. caule scandente, foliis cirrhosis, racemis axillaribus corymbosis cernuis, corollis monopetalis basi bigibbis.*  
—*Pers. syn.* 2. p. 269.

*fungosa.*

*Fumaria fungosa. Willd. sp. pl.* 3. p. 857.

*Fumaria recta. Mich. fl. amer.* 2. p. 51.

In moist and shady places, in the beech-woods of Canada and Pennsylvania. ♂. June—Sept. *v. v.* A delicate twining plant; flowers pale red and in great abundance.

**\*\* Corollis unicalcaratis.**

5. *C. caule ramoso erecto, foliis glaucis, caulinis biternatis, racemis subcorymbosis, bracteis minutis, siliquis linearibus pedunculo triplo longioribus.*—*Pers. syn.* 2. p. 269.

*glauc.*

*Fumaria sempervirens. Willd. sp. pl.* 3. p. 863.

*Icon. Bot. mag.* 179. *Corn. canad.* 57.

In the cliffs of rocks, in Canada, and on the Allegany mountains. ♂. June—Aug. *v. v.* Flowers very handsomely variegated with yellow, red, and green.

6. *C. caule ramoso diffuso, foliis bipinnatis, foliolis partitis lineari-lanceolatis utrinque acutis, racemis secundis, bracteis lato-lanceolatis subdenticulatis, siliquis teretibus turgidis pedunculo duplo longioribus.*—*Willd. enum.* 740.

*aurea.*

On shady rocks: Pennsylvania to Virginia. ♂. May—July. *v. v.* Flowers bright yellow; the leaves and the size of the flowers resemble those of the preceding species.

**559. FUMARIA. Gen. pl.** 1154.

1. *F. caule ramoso diffuso, foliis supradecompositis, foliolis cuneiformi-lanceolatis incisis.*—*Willd. sp. pl.* 3. p. 867.

*officinalis.*

*Icon. Fl. dan.* 940. *Engl. bot.* 589.

In cultivated grounds: Pennsylvania to Virginia; rare. ♂. May—Aug. *v. v.* Flowers small, red, mixed with green.

## III. OCTANDRIA.

## 560. POLYGALA. Gen. pl. 1154.

\* *Cristatæ*. Floribus appendice penicilliformi.*incarnata*.

1. *P. caule simpliciusculo erecto, foliis sparsis subulatis, spicis ovali-oblongis, corollis tubo gracili elongato.*—*Willd. sp. pl. 3. p. 871.*

In low sandy fields and on the edge of rivulets: Jersey to Carolina. ☉. June, July. *v. v.* A delicate little plant; flowers of a bright flesh-colour.

*rubella*.

2. *P. pubescens; caule simplici erecto, foliis angustolanceolatis acutis, racemo terminali, bracteis subulatis solitariis caducis, alis calycinis nervoso-venosis truncato-rotundatis corolla longioribus.*

*P. rubella. Willd. sp. pl. 3. p. 875?*

In woods and on dry shady hills: Pennsylvania to Georgia. ♀. June, July. *v. v.* Flowers pale red. This species approaches near to *P. vulgaris*. Whether Willdenow's plant is the same or not, I am not able to determine; but I strongly suspect he had but an imperfect specimen, in which the very minute bractæ had disappeared. If his specimen has come from Dr. Muhlenberg, it certainly is the same plant.

*paucifolia*.

3. *P. pumila, grandiflora; caulibus simplicissimis erectis inferne nudis, foliis ovatis acutis glabris, floribus terminalibus subternis.*—*Willd. sp. pl. 3. p. 880.*

In sphagnum swamps and bogs: Pennsylvania to Virginia; principally on the mountains. ♀. May—Aug. *v. v.* Not above three or four inches high; flowers the largest of those mentioned here, about the size of *P. myrtifolia*, of a fine pale red colour.

\*\* *Imberbes*.*uniflora*.

4. *P. pumila; caulibus simplicissimis erectis inferne nudiusculis, foliis paucis lato-ovatis in petiolum angustatis, floribus solitariis sparsis pedicellatis rotantibus.*—*Michx. fl. amer. 2. p. 53.*

On the banks of lake Ontario. *Michaux. ♀. +.*

*Senega*.

5. *P. caulibus erectis simplicissimis foliosis, foliis alternis lanceolatis, spica terminali filiformi, floribus alternis.*—*Willd. sp. pl. 3. p. 894.*

Icon. Bot.

1. 2.  
a. *P. foliis floribus*  
β. *P. glabellaxiusculis*  
amer. 2.

On the side through and Ge. farious the site remedie Liatris

6. *P. caule simplici spatulato pitata* p. 894.

Icon. Plu.

a. *P. caule subulatis*β. *P. subulatis*

In wet woods

low meadows

A fine specimen

β. does

7. *P. caule obtusiusculis*  
*Willd.*

In dry woods

*v. v.*

general

8. *P. caule muscoso, dense sili*  
In Carolina  
*Lyon.*

9. *P. caule ternis rosis.*—*Pl.*

Icon. Pl.

In woods

lina.

10. *P. caule attenuato*

Icon. Bot. mag. 1051. Mill. dict. 3. t. 5. Amer. acad. 2. t. 2.

α. P. foliis lanceolatis, vel ovalibus, spica confertiuscula, floribus albidis subsessilibus.—Mich. fl. amer. 2. p. 53.

albida.

β. P. glabella vel pubescens; foliis lineari-lanceolatis, spica laxiuscula alterniflora, floribus roseis.—Mich. fl. amer. 2. p. 53.

rosea.

On the side of hills and in dry woods: α. Canada and throughout the Allegany mountains. β. in Carolina and Georgia. 2. June—Aug. v. v. This is the famous *Seneca Snake-root*, formerly so celebrated for the bite of rattle-snakes; but other more efficacious remedies have supplanted it. Vid. *Prenanthes* and *Liatris*.

6. P. caule simplici vel ramoso; foliis radicalibus infimisque spatulatis, cæteris lanceolatis, spica cylindraceo-capitata confertiflora pedunculata.—Willd. sp. pl. 3. p. 894.

lutea.

Icon. Pluk. amalth. t. 438. f. 6.

α. P. caule subvirgatum elatiore.

elatior.

β. P. subacaulis, foliis omnibus spatulatis, capitulo majore.

mana.

In wet woods and bogs: New Jersey to Florida. β. in low meadows of Carolina. ☉. 3. July, Aug. v. v. A fine species; flowers of a golden yellow; the var. β. does not grow above three or four inches high.

7. P. caule erecto simplicissimo, foliis lineari-lanceolatis obtusiusculis, capitulo terminali globoso-capitato.—Willd. sp. pl. 3. p. 895.

viridescens.

In dry woods: Pennsylvania to Carolina. ☉. July, Aug. v. v. Flowers greenish-white, with some red. In general habit it resembles *P. incarnata*.

8. P. caule setaceo subaphyllo simplici, summitate subramoso, foliis parvis setaceis sparsis, floribus minutis dense spicatis.—Mich. fl. amer. 2. p. 52.

setacea.

In Carolina and Georgia. ☉. July, Aug. v. s. in Herb. Lyon.

9. P. caule erecto summitate corymboso-ramoso, foliis alternis linearibus, spicis capitatis, pedunculis squarrosis.—Willd. sp. pl. 3. p. 896.

sanguinea.

Icon. Pluk. mant. t. 438. f. 5.

In woods on the side of hills: New England to Carolina. ☉. July, Aug. v. v. Flowers rose-coloured.

10. P. caule a basi ramoso, foliis alternis ellipticis obtusis basi attenuatis, spicis terminalibus oblongis, floribus alter-

polygama.

nis pedunculatis, spicis inferioribus depressis apetalis.  
—*Walt. fl. car.* 179.

In the pine-barrens of Carolina. ☉. July, Aug. *v. s.*  
Calyx greenish-white, with pale yellow petals.

*verticillata.* 11. *P. caule erecto ramoso, foliis verticillatis linearibus, spicis setaceis pedunculatis, floribus distincte alternis approximatis.*—*Willd. sp. pl.* 3. p. 897.

Icon. *Pluk. mant. t.* 438. f. 4.

On the sides of dry hills and in pine-woods: New York to Carolina. ☉. June—Aug. *v. v.* Flowers very small, white, or sometimes pale red.

*cruciata.* 12. *P. caule erecto ramoso alato-anguloso, foliis quaternis lineari-lanceolatis, capitulis spicatis sessilibus.*—*Willd. sp. pl.* 3. p. 897.

In wet places, on the edge of bogs and rivulets; Canada to Carolina. ☉. July—Sept. *v. v.* Flowers red mixed with green.

#### IV. DECANDRIA.

##### 561. AMORPHA. *Gen. pl.* 1170.

*fruticosa.*

1. *A. glabra, subarborescens; foliis petiolatis, spicis aggregatis elongatis, calycibus nudiusculis pedicellatis, dentibus 4. obtusis, unico acuminato, leguminibus oligospermis.*—*Willd. sp. pl.* 3. p. 970.

Icon. *Schmidt arb.* 30. *Schkuhr handb.* 197. *Hort. cliff. t.* 19. *Mill. ic.* 27. *Duham. arb. t.* 46.

*vulgaris.*

*α. A. foliis mucronatis, calycibus glabris.*

*emarginata.*

*β. A. foliis emarginatis, calycibus canis.*

*angustifolia.*

*γ. A. foliis lineari-ellipticis basi subacutis.*

On the banks of rivers: Carolina and Florida. *h.* June, July. *v. v.* Var. *γ. v. s.* in *Herb. Lewis.* A shrub from nine to twelve feet high. Flowers of a very fine blue, in close and long spikes. It is generally known by the name of *Wild Indigo*. The leaves, as in all the following species, are beset with glands, which are transparent.

*microphylla.*

2. *A. glabriuscula, pumila; foliis brevissime petiolatis utrinque obtusis, spicis solitariis abbreviatis, calycibus nudiusculis pedicellatis, dentibus omnibus acuminatis, leguminibus monospermis.*

*A. nana.*  
On the  
in *Herb.*  
purple

3. *A. humilis*  
mucronatis  
dentibus  
*p. 970.*

*A. herbacea*  
*A. pumila*  
In sandy  
July.  
fine blue

4. *A. undulata*  
mucronatis  
spicis  
dentibus  
On the banks  
Aug.  
flowers

1. *E. pumila*  
glossa  
*p. 912*  
Icon. *B.*  
*Dill.*  
In sandy  
June,  
scarlet

1. *L. perfoliata*  
digitatis  
cibus  
ginatis  
Icon. *B.*  
On dry  
May-  
times

2. *L. perfoliata*  
folioli

*A. nana*. *Fraser. catal.* 1813.

On the banks of the Missouri.  $\frac{1}{2}$ . July, Aug. *v. s.*  
in *Herb. Lewis*. From one to two feet high; flowers  
purple and fragrant. A very elegant little shrub.

3. *A. humilis*, frutescens; foliis brevissime petiolatis sine  
mucrone utrinque obtusis glabriusculis, spicis panicu-  
latis elongatis pubescentibus, calycibus subsessilibus,  
dentibus omnibus acuminatis.—*Willd. sp. pl.* 3.  
*p.* 970.

*pubescens*.

*A. herbacea*. *Walt. fl. car.* 179.

*A. pumila*. *Mich. fl. amer.* 2. *p.* 64.

In sandy dry fields: Carolina and Georgia.  $\frac{1}{2}$ . June,  
July. *v. v.* From two to three feet high; flowers a  
fine blue, smaller than No. 1.

4. *A. undique cano-tomentosa*, humilis; foliolis approxi-  
matis subsessilibus ovato-ellipticis acutis mucronatis,  
spicis paniculatis cano-tomentosis, calycibus sessilibus,  
dentibus omnibus acuminatis.

*canescens*.

On the banks of the Missouri and Mississippi.  $\frac{1}{2}$ . July,  
Aug. *v. v.* Resembles the foregoing one very much;  
flowers of a more beautiful blue.

562. ERYTHRINA. *Gen. pl.* 1163.

1. *E. pumila*; foliis ternatis rhombeis glabris, spicis lon-  
gissimis, caule herbaceo inermi.—*Willd. sp. pl.* 3.  
*p.* 912.

*herbacea*.

*Icon. Bot. mag.* 877. *Trew. ehret. t.* 58. *Catesb. car.* 49.  
*Dill. elth. t.* 90. *f.* 106.

In sandy woods and fields: Carolina and Florida.  $\frac{1}{2}$ .  
June, July. *v. v.* A beautiful perennial; flowers  
scarlet.

563. LUPINUS. *Gen. pl.* 1176.

1. *L. perennis*, repens; caule foliisque glabriusculis, foliis  
digitatis: foliolis (8-9) lanceolatis obtusiusculis, caly-  
cibus alternis inappendiculatis: labio superiore emar-  
ginato; inferiore integro.—*Willd. sp. pl.* 3. *p.* 1022.

*perennis*.

*Icon. Bot. mag.* 202. *Mill. dict. t.* 170. *f.* 1.

On dry hills, in gravelly soil: Canada to Florida.  $\frac{1}{2}$ .  
May—July. *v. v.* Flowers blue, purple, and some-  
times white.

2. *L. perennis*; caule foliisque hirsutis, foliis digitatis: *nootkatensis*.  
foliolis (7-8) lanceolatis obtusis, calycibus verticillatis

inappendiculatis: labio superiore emarginato, inferiore integro.—*Donn. catal. hort. cantab.*

*Icon. Bot. mag.* 1311.

On the north-west coast. *Menzies*. ♀. June, July. *v. s. in Herb. Lambert*. This stately perennial approaches near to the foregoing one in its general character, but the flowers are larger and beautifully variegated. In the Herbarium of A. B. Lambert, Esq. is a specimen from Professor Rudolph, of St. Petersburg, collected in Unalashka, under the name of *L. regius*, decidedly the same with the present species, the name of which sufficiently shows the grandeur of this plant in its native state.

*sericeus.*

3. *L. perennis*; caule foliisque sericeo-tomentosis, foliis digitatis: foliolis (7–8) lanceolatis acutis utrinque sericeis, calycibus subverticillatis inappendiculatis: labio superiore inciso; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis*. ♀. July. *v. s. in Herb. Lewis*. Flowers pale purple, or rose-coloured.

*argenteus.*

4. *L. perennis*; foliis digitatis: foliolis (5–7) lineari-lanceolatis acutis supra glabris subtus argenteo-sericeis, calycibus alternis inappendiculatis: labio superiore obtuso; inferiore integro.

On the banks of the Kooskoosky. *M. Lewis*. ♀. June, July. *v. s. in Herb. Lambert*. Flowers small, cream-coloured.

*pusillus.*

5. *L. biennis*, pusillus, undique pilis longis albidis hirsutissimus; foliis digitatis: foliolis (7) lineari-ellipticis supra glabris, calycibus alternis inappendiculatis: labio superiore bipartito; inferiore integro, leguminibus subdispermis.

On the banks of the Missouri. ♂. June. *v. s. in Herb. Lewis*. Flowers small, a fine blue mixed with some red.

*villosus.*

6. *L. perennis*, villosissimus; foliis simplicibus oblongis, spicis elongatis, calycibus alternis inappendiculatis: labio superiore bifido; inferiore integro elongato.—*Mich. fl. amer.* 2. p. 56.

*L. pilosus. Walt. fl. car.* 180.

In dry sandy fields: Carolina and Florida. ♀. June–Aug. *v. v.* A beautiful perennial, but very shy of cultivation; flowers very variable in colour: white, rose red, and purple.



*Lupinus villosus.*

1. *C. hirsuta*  
lanceol  
rentibu  
lyce m  
*C. sagitta*  
In pine-b  
Flower
2. *C. hirsuta*  
ceolatis  
bidentat  
noribus  
*C. sagitta*  
In sandy  
*v. v.*
3. *C. hirsuta*  
subrotu  
bus bre  
lis caly  
*C. sagitta*  
Anonymo  
In pine-b  
*v. s. in*
4. *C. glabra*  
stipulis  
opposit  
*C. sagitta*  
*alm. 1*  
In pine-v

1. *P. volubi*  
subcor  
duncu  
pendu  
182.  
*P. panice*  
*Dolichos*  
On the  
amon  
*v. v.*  
abund  
appea

564. CROTALARIA. *Gen. pl.* 1172.

1. *C. hirsuta*, erecta, ramosa; foliis simplicibus oblongo-lanceolatis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris, corollis calyce minoribus.—*Willd. sp. pl.* 3. p. 972.  
*C. sagittalis*  $\beta$ . oblonga. *Mich. fl. amer.* 2. p. 55.  
 In pine-barrens: Virginia to Georgia. ☉. July. *v. v.*  
 Flowers, as all the following, yellow.
2. *C. hirsuta*, erecta, ramosa; foliis simplicibus lineari-lanceolatis, stipulis superioribus decurrentibus brevissime bidentatis, racemis oppositifoliis, corollis calyce minoribus.—*Willd. sp. pl.* 3. p. 973.  
*C. sagittalis*  $\alpha$ . linearis. *Mich. fl. amer.* 2. p. 55.  
 In sandy fields: New York to Carolina. ☉. June, July.  
*v. v.*
3. *C. hirsuta*, diffusa, ramosa; foliis simplicibus petiolatis subrotundo-ovalibus, stipulis summis vix decurrentibus brevissimis, racemis oppositifoliis elongatis, corollis calycem æquantibus.  
*C. sagittalis*  $\gamma$ . ovalis. *Mich. fl. amer.* 2. p. 55.  
*Anonymos rotundifolia*. *Walt. fl. car.* 181.  
 In pine-barrens of Carolina and Georgia. ☉. June, July.  
*v. s. in Herb. Enslen.*
4. *C. glabra*, erecta, simplex; foliis lanceolato-oblongis, stipulis lanceolatis acuminatis decurrentibus, racemis oppositifoliis subtrifloris.  
*C. sagittalis glabra*, longioribus foliis, americana. *Pluk. alm.* 122. t. 277. f. 2.  
 In pine-woods of Virginia and Carolina. ☉. July. *v. v.*

*sagittalis.*

*parviflora.*

*ovalis.*

*lævigata.*

565. PHASEOLUS. *Gen. pl.* 1180.

1. *P. volubilis*, totus pubescens; foliolis lato-ovatis impari subcordato, racemis geminatis folio longioribus, pedunculis geminatis, bracteis obsoletis, leguminibus pendulis.—*Willd. sp. pl.* 3. p. 1031. *Walt. fl. car.* 182.  
*P. paniculata*. *Mich. fl. amer.* 2. p. 60.  
*Dolichos polystachyos*. *Willd. sp. pl.* 3. p. 1049.  
 On the side of fertile hills, near the banks of rivers, among rocks: Pennsylvania to Carolina.  $\mathcal{U}$ . July, Aug.  
*v. v.*; *v. s. in Herb. Gronov.* Flowers purple, in great abundance, which gives this plant a very ornamental appearance.

*perennis.*

*vexillatus.*

2. *P. volubilis*, pubescens; pedunculis petiolo crassioribus capitatis, alis subfalcatis difformibus, leguminibus linearibus strictis. *Willd. sp. pl.* 3. p. 1032.  
 Icon. *Jacq. hort. t.* 102. *Dill. elth. t.* 234. f. 302.  
 On the sea-coast of Carolina and Georgia. ☉. July, Aug. *v. v.* Flowers large, purple.

*helvolus.*

3. *P. volubilis*, perennis, hirtellus; foliolis oblongo-ovalibus subdeltoideis obtusiusculis, capitulis longe pedunculatis, vexillis brevibus, alis expansis maximis, leguminibus tereti-linearibus.—*Willd. sp. pl.* 3. p. 1032.  
*Glycine umbellata. Willd. sp. pl.* 3. p. 1058.  
 Icon. *Dill. elth. t.* 233. f. 300.  
 In dry gravelly soil, in old fields and pastures: New York to Carolina. *v. v.* Flowers of a rose-colour, carina purple.

*trilobus.*

4. *P. volubilis*, pubescens; foliolis inferioribus rhomboideo-ovalibus, superioribus trilobatis, capitulis longe pedunculatis, leguminibus linearibus. *Mich. fl. amer.* 2. p. 60.  
*P. vexillatus. Walt. fl. car.* 182.  
*Glycine angulosa. Willd. sp. pl.* 3. p. 1056.  
 On banks of rivers in gravelly soil: Pennsylvania to Carolina. ☉. June, July. *v. v.* Flowers resembling the foregoing species.

566. DOLICHOS. *Gen. pl.* 1181.*luteolus.*

1. *D. volubilis*, pubescens; foliolis ovatis acuminatis, pedunculis folio longioribus, spicis brevibus subcapitatis, vexillo lato reflexo, alis rhomboideis.—*Willd. sp. pl.* 3. p. 1038.  
 Icon. *Jacq. hort. t.* 90.  
 In rice fields of Georgia. *Enslen.* ☉. June, July. *v. v.* Flowers bright yellow.

567. PISUM. *Gen. pl.* 1184.*maritimum.*

1. *P. petiolis supra planiusculis, caule angulato, stipulis sagittatis, pedunculis multifloris. Willd. sp. pl.* 3. p. 1071.  
 Icon. *Fl. dan.* 338. *Engl. bot.* 1046.  
 In rocky and sandy situations, near the sea-coast: Canada to New York. ♀. July, Aug. *v. v.* Flowers large, handsome, purple and blue.

1. *L. caule*  
 sex lin  
*Willd.*  
 Icon. *Fl.*  
 In low g  
*v. s.*

2. *L. caule*  
 tis ac  
 acutis  
 longio  
 In salt-n  
 larly p  
*v. v. R.*  
 purple

3. *L. caule*  
 minati  
 mucro  
 10-flor  
 In low  
 Flower

4. *L. caule*  
 5-jugi  
 culis 3  
 On the  
 purple

1. *V. pedu*  
 misag  
 ceolat  
 bris.—

In low  
 July,  
 with a

2. *V. flori*  
 notati  
 gumi  
*sp. pl.*  
 In Low  
 purple

3. *V. pedu*  
 VOL. II

568. LATHYRUS. *Gen. pl.* 1186.

1. L. caule alato, stipulis semisagittatis lanceolatis, foliis sex lineari-lanceolatis acutis, pedunculis sub-3-floris.—*Willd. sp. pl.* 3. p. 1090.  
Icon. *Fl. dan.* 399. *Engl. bot.* 169.  
In low grounds of Canada. *Michaux.* 2. July, Aug. *v. s.* Flowers pale purple, of middle size. *palustris*
2. L. caule nudo tetragono, stipulis semisagittatis lanceolatis acuminatis, foliolis quatuor oblongo-lanceolatis acutis mucronatis venoso-reticulatis, pedunculis folio longioribus sub-3-floris.—*Willd. sp. pl.* 3. p. 1091.  
In salt-marshes: Pennsylvania and New York; particularly plenty about Lake Onondago. 2. July, Aug. *v. v.* Resembles the foregoing species; flowers smaller, purple and rose-coloured. *myrtifolius.*
3. L. caule nudo tetragono, stipulis semisagittatis ovatis acuminatis, foliolis numerosis subalternis ovatis obtusis mucronatis venosis, pedunculis folio brevioribus 5—10-floris.—*Willd. sp. pl.* 3. p. 1092.  
In salt meadows: Pennsylvania. 2. July, Aug. *v. s.* Flowers purple. *venosus.*
4. L. caule tetragono, stipulis semisagittatis linearibus, foliis 5-jugis: foliolis oblongo-ellipticis mucronatis, pedunculis 3—4-floris. *decaphyllus.*  
On the banks of the Missouri. 2. *v. s.* Flowers purple, large; pods large.

569. VICIA. *Gen. pl.* 1187.

1. V. pedunculis solitariis unifloris capillaribus, stipulis semisagittatis integerrimis, foliolis subsenis lineari-lanceolatis obtusiusculis, leguminibus parvis oblongis glabris.—*Willd. sp. pl.* 3. p. 1106.  
In low grassy grounds: Pennsylvania to Virginia. 0. July, Aug. *v. v.* Flowers exceeding small, white, with a tinge of red. *pusilla.*
2. V. floribus binis subsessilibus, stipulis dentatis macula notatis, foliolis oblongo-ovatis retusis mucronatis, leguminibus erectis subtereti-linearibus glabris.—*Willd. sp. pl.* 3. p. 1104? *Walt. fl. car.* 183.  
In Lower Carolina. 0. July, Aug. *v. s.* Flowers purplish-blue. *sativa.*
3. V. pedunculis submultifloris folio brevioribus, stipulis *americana.*

semisagittatis dentatis, foliolis 8—12. elliptico-lanceolatis obtusis glabris.—*Willd. sp. pl.* 3. p. 1096.

In Pennsylvania. *Muhlenberg. V. +*. Flowers the size of *V. sylvatica*, to which it bears a great resemblance.

*Cracca.*

4. *V. spicis multifloris retrorsum imbricatis folio longioribus, stipulis semisagittatis lineari-subulatis integerrimis, foliolis numerosis lanceolato-oblongis pubescentibus.*—*Willd. sp. pl.* 3. p. 1098.

Icon. *Fl. dan.* 804. *Mart. fl. rust.* 117.

In woods and meadows: Canada to Virginia. *V.* July, Aug. *v. v.* Flowers pale blue.

*caroliniana.*

5. *V. pedunculis multifloris, floribus distantibus, stipulis ovato-lanceolatis integerrimis, foliolis 8—10. elliptico-lanceolatis glabrisculis, caule glabro.*—*Willd. sp. pl.* 3. p. 1094. *Walt. fl. car.* 182.

*V. parviflora. Mich. fl. amer.* 2. p. 69.

In the mountains from Pennsylvania to Carolina. *V.* July, Aug. *v. v.* Resembles the foregoing species; but the flowers are white, with a vexillum black on the tip, and a great deal smaller.

570. ASTRAGALUS. *Gen. pl.* 1208.*carolinianus.*

1. *A. caulescens, erectus; foliolis (41) oblongis subtus pubescentibus, spicis pedunculatis, bracteis lanceolatis pedunculi longitudine, leguminibus ovatis tumidis rostratis.* *Willd. sp. pl.* 3. p. 1273.

Icon. *Dill. elth. t.* 39. f. 45.

In the mountains of Virginia and Carolina. *V.* June, July. *v. v.* Flowers pale yellow.

*canadensis.*

2. *A. caulescens, diffusus; foliolis (21) utrinque glabris, leguminibus subcylindricis mucronatis.*—*Willd. sp. pl.* 3. p. 1274.

Icon. *Dodart. mem. t.* 65. *Rob. ic.* 314.

In the mountains: Canada to Carolina. *V.* July, Aug. *v. v.* Flowers yellow.

*glaber.*

3. *A. caulescens, glaber; foliolis lanceolato-oblongis subciliatis, spicis longe pedunculatis, floribus laxiusculis, leguminibus distantibus incurvis teretibus glabris.*—*Mich. fl. amer.* 3. p. 66.

In the sands of Georgia. *Michaux. V. +*. Flowers white.

*alpinus.*

4. *A. caulescens, procumbens; floribus pendulis racemosis,*

leguminibus utrinque acutis pilosis. *Willd. sp. pl.* 3. p. 1297.

Icon. *Fl. dan.* 51. *Pall. astrag. t.* 32.

In Labrador. *Colmaster. 2.* July, Aug. *v. s.* in *Herb. Dickson.* Flowers pale purple.

5. *A. caulescens*, procumbens; foliolis ovatis pubescentibus, spicis pedunculatis, leguminibus secundis rectis utrinque acuminatis pendulis.—*Mich. fl. amer.* 2. p. 67.

In the north of Canada. *Michaux.* Labrador. *Colmaster. 2.* July, Aug. *v. s.* Flowers dark purple.

6. *A. caulescens*, glaber; foliolis linearibus alternis, spicis pedunculatis folio longioribus, bracteis minutis, leguminibus subteretibus rostratis.

On the banks of the Missouri. *M. Lewis. 2.* Aug. *v. s.* in *Herb. Lewis.* Flowers small, yellowish-white,

7. *A. subcaulis*, pilosissimus; foliolis ovalibus supra glabris, pedunculis folia subæquantibus, spicis paucifloris, leguminibus incano-villosissimis assurgentibus oblongis.—*Mich. fl. amer.* 2. p. 67.

In sandy pine-woods of Georgia. *2.* July, Aug. *v. s.* in *Herb. Enslen.*

*secundus.*

*tenellus.*

*villosus.*

571. OXYTROPIS. *Decand. astrag. p.* 24.

1. *O. acaulis*; foliolis obovato-lanceolatis sericeo-argenteis, scapis folia æquantibus, floribus capitatis, bracteis lanceolatis longitudine calycis sericei.—*Pers. syn.* 2. p. 331.

*Astragalus argentatus. Willd. sp. pl.* 3. p. 1310.

Icon. *Pall. astrag. t.* 48.

On the banks of Clark's river. *M. Lewis. 2.* July. *v. s.* in *Herb. Lewis.*

*argentata.*

572. APIOS.

*Glycine. Gen. pl.* 1182.

1. *A. volubilis*, glabra; radice tuberosa, foliis impari-pinnatis: foliolis 5—7. ovato-lanceolatis superne angustatis, spicis confertis folio brevioribus.

*Glycine Apios. Willd. sp. pl.* 3. p. 1067.

Icon. *Bot. mag.* 1198. *Schkuhr handb.* 198. *Rob. ic.* 317.

In hedges and on mountain meadows: Pennsylvania to Carolina. *2.* July. *v. v.* Flowers dark brown, sweet-scented; roots eatable, growing sometimes to an enormously large size.

*tuberosa.*

*frutescens.*

2. *A. volubilis*; foliis impari-pinnatis novenis ovatis pubescentibus, racemis terminalibus bracteatis, leguminibus coriaceis.

*Glycine frutescens. Willd. sp. pl. 3. p. 1067.*

*Anonymos frutescens. Walt. fl. car. 186.*

In swamps of Virginia, Carolina, and Illinois. ♀. June, July. v. v. Flowers purplish-blue. It is a fine ornamental plant.

573. DALEA. *Hort. cliff. p. 363. Mich. fl. amer. 3. p. 36.*

*Cliffortiana.*

1. *D. spicis oblongis confertis pedunculatis terminalibus sericeis, bracteis calycis longitudine, foliis subsexjugis lineari-cuneatis retusis apice subdentatis.—Willd. sp. pl. 3. p. 1336.*

*Psoralea Dalea. Sp. pl. 1076.*

*Icon. Hort. cliffort. t. 22.*

In Georgia and Florida. ☉. v. v. in *Hortia*. Flowers blue.

*alopecuroides.*

2. *D. spicis cylindricis pedunculatis terminalibus sericeis confertis, bracteis calyce brevioribus, foliis 10—12-jugis ellipticis retusis mucronatis. Willd. sp. pl. 3. p. 1336.*

*D. Linnæi. Mich. fl. amer. 2. p. 57. t. 38.*

On the banks of the Mississippi. ☉. July, Aug. v. v. Flowers pale blue.

*pedunculata.*

3. *D. glabriuscula*; spicis oblongis axillaribus subconfertis brevibus, pedunculis folio triplo longioribus, bracteis minutis longitudine pedicellorum, dentibus calycis subulatis, foliis subsexjugis linearibus acutis mucronatis. On the banks of the Mississippi. *Enslen. ☉. July, Aug. v. s. in Herb. Enslen.* Flowers rose-coloured.

*parviflora.*

4. *D. cano-pubescens*; spicis filiformibus elongatis laxifloris axillaribus, pedunculis folio duplo longioribus, bracteis minutis, calycis tomentosi dentibus acutis brevibus, foliis sub-5-jugis linearibus obtusis. On the banks of the Missouri. ☉. July, Aug. v. s. Flowers small, white.

pube-  
mini.

June,  
ne or.

er. 3.

ous sc-  
exjugis  
lld. sp.

Flowers

sericeis  
O—12-  
b. pl. 3.

g. v. v.

confertis  
bracteis  
ycis su-  
cronatis.  
ly, Aug.

laxiflo-  
gioribus,  
cutis bre-

g. v. s.



*Boralea exaltata.*

1. *P. tota* c.  
spicis la-  
sissimis.  
In barren  
v. s. Re
2. *P. parce* p.  
spicis ob-  
minatis,  
—*Mich*  
*Melilotus* s.  
*Trifolium* s.  
In pine-ba-  
v. s. in A
3. *P. pubesce*  
lipticis v.  
bus folio-  
On the bar-  
v. s. in A
4. *P. pubesce*  
tis, petio-  
bus dens-  
vix longi-  
On the ba-  
Flowers
5. *P. undique*  
lanceola-  
bracteis  
silibus.  
On the ba-  
purple:  
ticularly
6. *P. undique*  
ceolatis  
bus den-  
breviorib-  
fusiform-  
On the ba-  
July.  
Tota plant-  
crassa,  
mosus,

374. PSORALEA. *Gen. pl.* 1210.

1. *P. tota canescens*; foliis breviter petiolatis trifoliatis, spicis laxifloris, floribus pedicellatis, calycibus villosissimis. *Mich. fl. amer.* 2. p. 57. *canescens.*  
In barren sandy fields of Carolina and Georgia. July. *v. s.* Resembles in appearance *Cytisus Cajan*.
2. *P. parce pubescens*; foliis ternatis: foliolis lanceolatis, spicis oblongis, bracteis lato-cordatis longissime acuminatis, leguminibus rotundatis nervoso-rugosissimis. — *Mich. fl. amer.* 2. p. 58. *melilotoides.*  
*Melilotus* flore violaceo, odore remisso. *Clayt. n.* 103.  
*Trifolium psoraloides.* *Walt. fl. car.* 184.  
In pine-barrens: Carolina to Florida. *W.* June—Aug. *v. s.* in *Herb. Leconte.* Flowers blue.
3. *P. pubescens, ramosissima*; foliis ternatis: foliolis ellipticis utrinque rugoso-punctatis, pedunculis axillari-bus folio longioribus sub-3-floris. *tenuiflora.*  
On the banks of the Missouri. *M. Lewis.* *W.* Sept. *v. s.* in *Herb. Lewis.* Flowers very small, pale blue.
4. *P. pubescens*; foliis ternatis: foliolis elongato-lanceola-tis, petiolis crassis, spicis axillaribus folio vix longiori-bus densifloris, floribus pedicellatis, bracteis pedicello vix longioribus, dentibus calycis coloratis. *lanceolata.*  
On the banks of the Missouri. *W.* July, Aug. *v. s.* Flowers bright blue, small.
5. *P. undique argenteo-tomentosa*; foliis ternatis: foliolis lanceolato-oblongis, spicis terminalibus interruptis, bracteis ovatis acuminatis, floribus suboppositis ses-silibus. *argophylla.*  
On the banks of the Missouri. *W.* *v. s.* Flowers purple: the silvery tomentum gives this plant a par-ticularly handsome appearance.
6. *P. undique villosa*; foliis digitato-quinatis: foliolis lan-ceolatis inæqualibus planis integerrimis, spicis axillari-bus densifloris, laciniis calycis lanceolatis corolla paulo brevioribus, leguminibus ensiformi-rostratis, radice fusiformi. *esculenta.*  
On the banks of the Missouri. *M. Lewis.* *W.* June, July. *v. s.* in *Herb. Lewis.* Flowers pale blue.  
Tota planta pilis longis albidis tecta. *Radix* fusiformis, crassa, exsiccatione farinosa. *Caulis* erectus, subra-mosus, teres, sulcatus, pedalis et ultra. *Folia* alterna,

petiolata, digitato-quinata. *Foliola* subpetiolata, lanceolata, utrinque acuta, integerrima, plana, supra glabra, punctis vix conspicuis confertissime adspersa, subtus pilosa, uncialia. *Petioles* communes teretes, folio longiores. *Stipulae* persistentes, ad basin petiolorum oppositae, oblongo-lanceolatae, acutae. *Spicae* axillares, pedunculatae, densiflorae, bracteatae, foliis longiores. *Bracteae* lato-ovatae, acuminatae, calyce breviores. *Flores* sessiles, caerulei, magnitudine et figura *Vicia sativae*. *Calyx* hirsutissimus, 5-fidus s. profunde 5-dentatus: dentibus lineari-lanceolatis: 2. lateralibus subfalcatis: inferus latior. *Corolla*: *Vexillum* obovatum, interne utrinque glandula instructum, calyce paulo longiore. *Alae* semi-ovatae, vexillo breviores. *Carina* oblonga. *Legumen* calyce tectum, monospermum, hirsutum, rostro ensiformi, glabro, calyce longiore instructum. *Semen* reniforme, nigrum.

It approaches very near to *P. pentaphylla* Willd. *sp. pl.* 3. p. 1352. which is fully described and figured by B. Jussieu in *Act. par.* 1744. p. 381. t. 17. But not only the botanical difference, but the medical use made of the Mexican plant, proves their distinctness. The present plant produces the famous *Bread-root* of the American Western Indians, on which they partly subsist in winter. They collect them in large quantities, and if for present use, they roast them in the ashes, when they give a food similar to yams: if intended for winter use, they are carefully dried, and preserved in a dry place in their huts. When wanted for use, they are mashed between two stones, mixed with some water, and baked in cakes over the coals. It is a wholesome and nourishing food, and, according to Mr. Lewis's observation, agreeable to most constitutions; which, he observed, was not the case with the rest of the roots collected by those Indians for food. This root has been frequently found by travellers in the canoes of the Indians, but the plant which produces it has not been known until lately.

*Lupinellus.*

7. *P. foliis* quino-digitatis: *foliolis* angustissime linearibus, *spica* pauciflora, *leguminibus* ovoideis, uncinat-mucronatis, nervoso-rugosis.—*Mich. fl. amer.* 2. p. 58. In barren fields of Carolina. *℥. v. s. in Herb. Lyon.* Flowers very small. The leaves of the whole genus are covered with resinous dots.

575.

1. M. ca  
bus  
Trifol  
Icon.  
On th  
nia.

1. T. pr  
obli  
cell  
spe  
On dr  
and  
Flow

2. T. rep  
tis,  
qua  
p. 1  
Icon.

In fiel  
℥.

by t  
wh  
mo  
for  
dres  
was  
hav  
cun  
wh

3. T. ere  
br  
lis  
rol  
fl.  
T. ar  
T. co  
In sa  
Ju  
en

575. MELILOTUS. *Tournef. inst. p. 407. t. 229.*

1. *M. caule erecto, foliis obovatis serratis, spicis axillari-*  
*bis paniculatis, leguminibus dispermis rugosis acutis.*  
*Trifolium officinale. Willd. sp. pl. 3. p. 1355.*  
*Icon. Fl. dan. 934. Mart. fl. rust. t. 72.*  
 On the gravelly shores of rivers: Pennsylvania to Virgi-  
 nia. ♂. ☉. June, July. *v. v.* Flowers white.

*officinale.*

576. TRIFOLIUM. *Gen. pl. 1211.*

1. *T. procumbens, pubescens; foliis obovatis, stipulis*  
*oblique cordatis, capitulis multifloris, floribus pedi-*  
*cellatis demum omnibus reflexis, leguminibus sub-3-*  
*spermis.—Willd. sp. pl. 3. p. 1357.*

*reflexum.*

On dry hills and among rocks: Pennsylvania, Kentucky,  
 and the Carolina mountains. *M.* June, July. *v. v.*  
 Flowers of a fine purplish-red.

2. *T. repens; foliis ovato-oblongis emarginatis serrula-*  
*tis, capitulis umbellaribus, calycinis dentibus subæ-*  
*qualibus, leguminibus tetraspermis.—Willd. sp. pl. 3.*  
*p. 1359.*

*repens.*

*Icon. Fl. dan. 990. Mart. fl. rust. 34.*

In fields, pastures, and cleared lands on the mountains.

*M.* May—Sept. *v. v.* This species, generally known  
 by the name of *White Clover*, makes its appearance  
 wherever lands are cleared of timber, in the most re-  
 mote parts of the country; I have seen it springing  
 forward on new plantations, from sixty to one hun-  
 dred miles distant from any place where it naturally  
 was found. A number of plants of this description  
 have struck my attention, among which are *Verbascum*  
*Thapsus* and *Senecio hieracifolius* in particular,  
 whose dissemination is really problematical.

3. *T. erectum, pusillum; foliis rotundato-obcordatis gla-*  
*bris margine ciliatis crenulatis, stipulis bifidis, capitu-*  
*lis umbellaribus pedunculatis reflexis paucifloris, co-*  
*rollis vix exertis, leguminibus subtrispermis.—Mich.*  
*fl. amer. 2. p. 58.*

*carolinianum.*

*T. arvense. Walt. fl. car. 183.*

*T. comosum. Willd. sp. pl. 3. p. 1360?*

In sandy fields, near Charlestown, South Carolina. *M.*  
 June—Aug. *v. s.* Flowers small, white. In *Lam.*  
*encycl. 8. p. 2.* it has been suggested, that *T. com-*

*sum* of Linnaeus and the present plant are the same, and I believe with very good reason, as I suppose the little difference between them may have been occasioned by culture.

*microcephalum.*

4. *T. adscendens*, pubescens; foliolis obovatis emarginatis denticulatis, stipulis ovatis acuminatis, capitulis pusillis pedunculatis paucifloris, floribus sessilibus, involucris ovatis aristatis, calycibus aristatis longitudine corollæ.

On the banks of Clarck's river. *M. Lewis*. 22. July. *v. s. in Herb. Lewis*. Flowers exceeding small, pale purple.

*pratense.*

5. *T. adscendens*, glabriusculum; foliolis ovalibus subintegerrimis, stipulis aristatis, spicis densis ovatis, calycis dente infimo tubo corollæ monopetalæ inæqualis brevior. — *Willd. sp. pl. 3. p. 1366*.

Icon. *Fl. dan.* 989. *Mart. fl. rust.* 3.

In fields and woods, frequent. 22. May—Sept. *v. v.* Common *Red Clover* is apparently in a native state, but very probably has been introduced.

*pensylvanicum.*

6. *T. adscendens*; caule ramosissimo flexuoso, foliolis ovato-ellipticis obtusis integerrimis, stipulis aristatis, spicis ovato-cylindraceis solitariis densis, calycis dente infimo corollæ monopetalæ brevior. — *Willd. enum. p. 793*.

In woods and fields: Pennsylvania to Virginia. 22. June—Sept. *v. v.* Resembles *T. medium* very much; flowers a fine red. It is known by the name of *Buffalo Clover*.

*arvense.*

7. *T. erectum*, ramosissimum, villosum; foliolis linearilanceolatis apice serrulatis, stipulis connatis apice subulatis, spicis villosissimis subcylindraceis, dentibus calycinis setaceis corolla longioribus. — *Willd. sp. pl. 3. p. 1373*.

Icon. *Fl. dan.* 724. *Curt. fl. lond.* 50.

In dry and sandy fields: Canada to Virginia. ☉. July, Aug. *v. v.* Flowers small, white; the wings have a red spot.

*agrarium.*

8. *T. erectum*, subpubescens; foliolis lanceolato-cuneatis obtusis: intermedio sessili, stipulis lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus, calycinis dentibus subulatis glabris inæqualibus. — *Willd. sp. pl. 3. p. 1382*.

*T. aureum. Pollich. fl. palat. n. 708.*

e same,  
pose the  
en occa-

arginatis  
lis pusil-  
s, invo-  
dine co-

l. July.  
all, pale

subinte-  
, calycis  
stalis bre-

t. v. v.  
ve state,

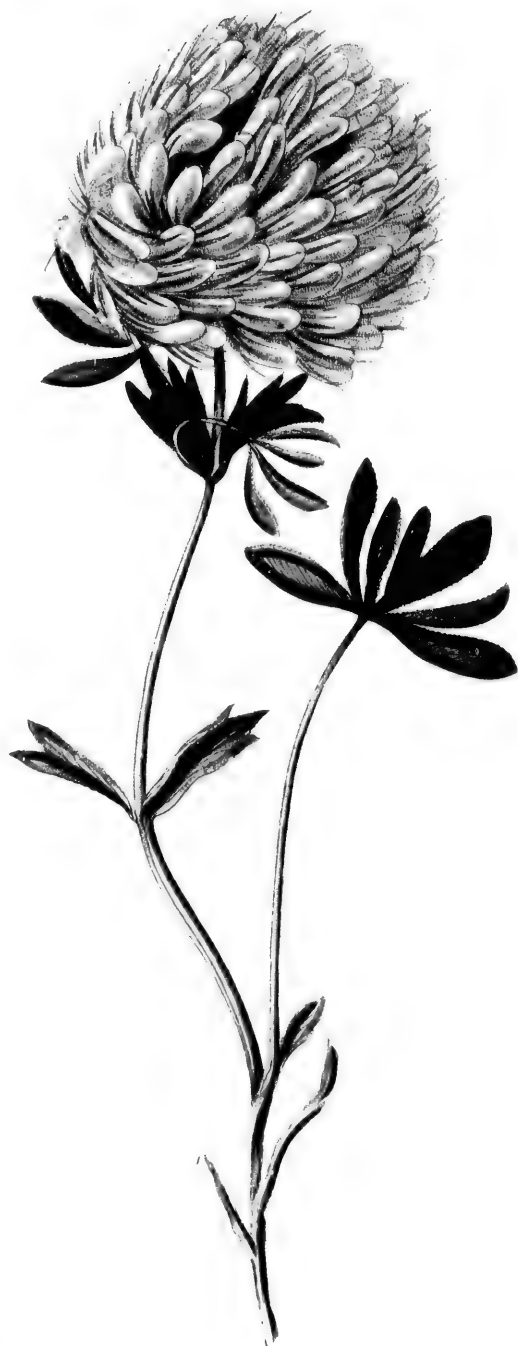
iolis ova-  
tis, spi-  
cis dente  
ld. enum.

l. June  
ch; flow-  
f *Buffalo*

linear-  
apice su-  
dentibus  
sp. pl. 3.

l. July,  
gs have a

cuneatis  
tis acu-  
s persis-  
næquali-



*Lupinus macrocephalus.*

D

T. streper  
Icon. FL  
In meado  
v. v.

9. T. procu  
margin  
spicis  
bus sul  
Icon. FL  
On dry g  
—Aug  
the for

577. LU

P

1. L. foliol  
pulis cu  
formib  
At the he  
April,  
white,  
showy  
tremely

*Caules* ple  
suprem  
lanceol  
glabra  
tioli in  
tiolo a  
apice i  
et pub  
diatum  
campan  
dentib  
quant  
ceolatu  
volven  
cinata  
diadel  
monac  
brum.  
*Legum*

## DIADELPHIA DECANDRIA. Trifolium.

479

*T. strepens*. Crantz. *fl. austr.* 411. n. 8.Icon. *Fl. dan.* 558.In meadows : Pennsylvania to Virginia. ☉. June—Aug.  
*v. v.* Flowers small, yellow.

9. *T. procumbens*; caule piloso; foliolis obovatis submarginatis glabris, stipulis brevibus lanceolatis acutis, spicis ovalibus imbricatis, vexillis deflexis persistentibus sulcatis.—*Willd. sp. pl.* 3. p. 1383. *procumbens.*

Icon. *Fl. dan.* 796.On dry gravelly soil : Pennsylvania to Virginia. ☉. June—Aug. *v. v.* Flowers yellow, resembling those of the foregoing species.577. LUPINASTER. *Mœnch. meth. suppl.* p. 50.Pentaphyllon. *Pers. syn.* 2. p. 352.

1. *L. foliolis novenis oblanceolatis, petiolis longissimis, stipulis cuneatis inciso-3-dentatis, calycinis dentibus filiformibus plumosis.* *macrocephalus.*

At the head-waters of the Missouri. *M. Lewis.* 2. April, May. *v. s. in Herb. Lewis.* Flowers yellowish-white, with a pale purple carina, very handsome and showy : the flower-heads sometimes grow to an extremely large size.

*Caules* plures, simplices, angulosi, pilosi. *Folia* petiolata, suprema opposita, novena. *Foliola* inæqualia, cuneato-lanceolata, inæqualiter mucronato-denticulata, supra glabra, subtus pilosa, lineato-venosa, uncialia. *Petioluli* inferiores longi, subteretes. *Stipulae* inferiores petiolo adnatæ, superiores liberæ, cuneato-oblongæ, apice inciso-3-dentatæ, margine serrulatæ, consistentia et pubescentia foliorum. *Capitulum* speciosum, dimidiatum. *Flores* lutescentes, carina purpurascens. *Cal.* campanulatus, subæqualiter 5-dentatus, villosissimus : dentibus subulatis piloso-plumosis corollam subæquantibus. *Corollæ*: *Vexillum* magnum, oblongo-lanceolatum, acutum, cæteras partes fructificationis involvens. *Alæ* carinæ adnatæ, lineares. *Carina* uncinata, integra, vexillo vix brevior. *Filamenta* 10. diadelphæ : 1. liberum, reliqua superne libera, inferne monadelphæ, carina adnata. *Germen* oblongum, glabrum. *Stylus* filiformis. *Stigma* simplex, hirsutum. *Legumen* 3-4-spermum, inflatum, calyce longius.

578. STYLOSANTHES. *Gen. pl.* 1203.*hispida.*

1. *S. caule uno latere pubescente, foliolis lanceolatis glabris, bracteis lanceolatis ciliatis, capitulis 2-3-floris.*—*Mich. fl. amer.* 2. p. 75.

*Trifolium biflorum. Sp. pl.* 1088.

*Arachis aprica. Walt. fl. car.* 182.

*erecta.*

- α. S. caule simplici erecto superne breviter ramoso.*

Icon. *Swartz. act. holm.* 1789. t. 11. f. 2.

*procumbens.*

- β. S. caule procumbente a basi ramoso.*

In dry gravelly fields and woods; Pennsylvania to Carolina. *W.* July, Aug. *v. v.* Flowers yellow, small.

579. GLYCYRRHIZA. *Gen. pl.* 1197.*lepidota.*

1. *G. foliolis oblongis acutis sericeo-villosis, leguminibus racemosis oblongis hispidis.*—*Fraser. catal.*

On the banks of the Missouri. *W.* July, Aug. *v. s. v. v. s. fl.*

580. LESPEDeza. *Mich. fl. amer.* 2. p. 70.*sessiliflora.*

1. *L. erecta; foliolis oblongis, fasciculis florum sessilibus numerosis, lomentis calyce minuto subnudatis acutis.* *Mich. fl. amer.* 2. p. 70.

*Hedysarum junceum. Walt. fl. car.* 184.

*Hedysarum sessiliflorum. Lam. encycl.* 6. p. 414.

*Hedysarum reticulatum. Willd. sp. pl.* 3. p. 1194.

*Medicago virginica. Syst. veg.* 3. p. 573.

In old fields and on the borders of woods: New York to Carolina. *W.* July, Aug. *v. v.* Flowers purple.

*capitata.*

2. *L. erecta, simplex; foliis subsessilibus: foliolis ellipticis, apicis capitatis brevi-pedunculatis axillaribus et conglomerato-terminalibus, calycibus villosis longitudine corollæ lomentis calyce multo minoribus.* *Mich. fl. amer.* 3. p. 71.

*Hedysarum conglomeratum. Lam. encycl.* 6. p. 416.

*angustifolia.*

- β. L. foliolis linearibus, pedunculis longioribus.*

*Trifolium erectum* haud ramosum, foliis longis, &c. *Clayt. n.* 934.

In sandy soil, in old fields and borders of woods: New York to Carolina. *W.* June, July. *v. v.* From one to three feet high; flowers pale purple.

*polystachya.*

3. *L. erecta, ramosa, villosissima; foliis subsessilibus: foliolis rotundato-ovalibus, apicis axillaribus longe-pe-*

dunculat  
lycem su  
Hedysarum  
Icon. *Mich.*  
In copses a  
June—A  
flowers s

4. *L. diffusa,*  
ellipticis  
vibus un  
beis retic  
Hedysarum  
On gravel  
*v. v. F*

5. *L. diffusa,*  
presso-p  
minis, h  
Hedysarum  
In North  
very ne  
only a v

6. *L. procun*  
peduncu  
bus caly  
Hedysarum  
In sandy  
June, J  
low spo

7. *L. prostra*  
subtus  
lio long  
Hedysarum  
In Pensyl  
dysarum

581

1. *H. erectu*  
ceolati  
culis  
*pl.* 3.  
Icon. *M*  
In sandy  
*W. Ju*  
hands

dunculatis, corollis calyce subæqualibus, lomento calycem subæquante.—*Mich. fl. amer.* 3. p. 71.

*Hedysarum hirtum*. *Willd. sp. pl.* 3. p. 1193.

Icon. *Mich. fl. amer.* 2. t. 40.

In copses and old fields: Pennsylvania to Carolina. 2½. June—Aug. v. v. From two to three feet high; flowers small, white, with a red spot on the vexillum.

4. *L. diffusa*, ramosissima; foliis longe-petiolatis: foliolis ellipticis obtusis subtus adpresso-pilosis, racemis brevibus umbellatis, floribus geminatis, lomentis rhombis reticulatis glabris.

*violacea.*

*Hedysarum violaceum*. *Willd. sp. pl.* 3. p. 1195.

On gravelly dry soil: Virginia to Carolina. 2½. July. v. v. Flowers small, purple or violet.

5. *L. diffusa*, ramosa; foliolis oblongis obtusis subtus adpresso-pilosis, racemis petiolo longioribus, floribus geminis, lomentis ovatis reticulatis glabris.

*divergens.*

*Hedysarum divergens*. *Willd. sp. pl.* 3. p. 1196.

In North America. *Muhlenberg*. 2½. +. Approaches very near to the foregoing species, and is probably only a variety.

6. *L. procumbens*, gracilis, pubescens; foliolis ovalibus, pedunculis longissimis, setaceis spicifloris, leguminibus calyce minuto nudatis.—*Mich. fl. amer.* 3. p. 70.

*procumbens.*

*Hedysarum Lespedeza*. *Lam. encycl.* 6. p. 415.

In sandy and gravelly soil: New York to Carolina. 2½. June, July. v. v. Flowers violet-purple, with yellow spots.

7. *L. prostrata*; foliis petiolatis: foliolis ellipticis obtusis subtus pilis raris adpressis tecta, racemis axillaribus folio longioribus, lomentis ovatis pubescentibus.

*prostrata.*

*Hedysarum prostratum*. *Willd. sp. pl.* 3. p. 1200.

In Pennsylvania. *Muhlenberg*. 2½. +. Resembles *Hedysarum repens* greatly.

#### 581. HEDYSARUM. *Gen. pl.* 1204.

1. *H. erectum*, glabriusculum; foliis ternatis oblongo-lanceolatis, stipulis filiformibus, floribus racemosis, articulis lomenti obtuse triangulis hispidis.—*Willd. sp. pl.* 3. p. 1187.

*canadense.*

Icon. *Moris. hist.* 2. s. 2. t. 11. f. 9.

In sandy barren fields and woods: Canada to Carolina. 2½. July, Aug. v. v. Flowers middle-sized, of a handsome purplish-red.

- canescens*. 2. *H. erectum*, pilosum; caule angulato-ciliato hispido, foliis ternatis subrotundis subtus adpresso-pilosis, stipulis ovatis acuminatis, racemis paniculatis, bracteis cordatis, lomenti articulis triangularibus hispidis.—*Willd. sp. pl.* 3. p. 1188.  
In dry barren woods: Virginia and Carolina. 2. June—Aug. *v. v.* Flowers middle-sized, pale purple.
- marylandicum*. 3. *H. erectum*, ramosum, pilosum; foliis ternatis oblongis subtus villosis, stipulis subulatis, racemis paniculatis, lomentis triarticulatis, articulis rhombeis reticulatis pilosiusculis.—*Willd. sp. pl.* 3. p. 1189.  
Icon. *Dill. elth. t.* 174. f. 171.  
In dry swamps and woods: New York to Carolina. 2. June—Aug. *v. v.* Flowers large, a fine purple, with a green spot at the bottom of the vexillum, which mark occurs in most species.
- obtusum*. 4. *H. erectum*, pubescens; foliis ternatis ovatis obtusis basi subcordatis, stipulis lanceolato-subulatis, panicula terminali, articulis lomenti semiorbiculatis reticulatis hispidis.—*Willd. sp. pl.* 3. p. 1190.  
In dry swamps, old fields and woods: Pennsylvania to Virginia. 2. July, Aug. *v. v.* Flowers violet.
- viridiflorum*. 5. *H. erectum*, ramosum, pubescens; foliis ternatis ovato-oblongis subtus scabris, stipulis lanceolato-cuspidatis, racemis paniculatis bracteatis, lomentis asperis, articulis ovalibus.—*Willd. sp. pl.* 3. p. 1192.  
Icon. *Pluk. alm. t.* 308. f. 5.  
In woods and old fields: New Jersey to Carolina. 2. July—Sept. *v. v.* About three feet high; flowers reddish-purple, which turns green after flowering.
- glabellum*. 6. *H. erectum*, glabrum; foliis ternatis ovatis obtusis subtus subglaucis, stipulis parvis subulatis, panicula terminali, lomenti articulis triangulo-rhomboides.—*Mich. fl. amer.* 3. p. 73.  
In fields and woods: Virginia and Carolina. 2. July, Aug. *v. v.* Flowers purple, small.
- bracteosum*. 7. *H. erectum*, glabrum; foliis ternatis oblongo-ovalibus acuminatis, stipulis subulatis, racemo terminali sparsifloro, bracteis ovatis acuminatis striatis glabris, lomenti articulis subovalibus.—*Mich. fl. amer.* 2. p. 73.  
In the western parts of Pennsylvania and Virginia. 2. July—Sept. *v. v.* Flowers large, purplish-red.
- ciliare*. 8. *H. erectum*, glabriusculum; foliis ternatis ovatis subtus

pubescenti  
panicula t  
culatis hisp  
In North Am  
violet.

9. *H. erectum*,  
vel elliptic  
nali, lome  
*Willd. sp.*  
Icon. *Pluk.*  
In dry wood  
June—Au

10. *H. stricte-er*  
ternatis li  
tus glauc  
peduncula  
In pine-wood  
Flowers st

11. *H. erectum*  
oblongis  
pulis oval  
lomenti tr  
scentibus.  
In shady wo  
Aug. *v.*

12. *H. erectum*,  
foliis tern  
adpresso-  
to-subrho  
dunculata  
In shady wo  
Aug. *v.*  
It approa  
connectin

13. *H. erectum*  
ovalibus  
caule foli  
angularib  
In woods a  
June—S  
purple.

14. *H. erectum*  
rotundo-

pubescentibus margine ciliatis, stipulis filiformibus, panicula terminali, lomenti articulis (2-3) semiorbiculatis hispidis.—*Willd. sp. pl. 3. p. 1196*.

In North America. *Muhlenberg. 2'*. Flowers small, violet.

9. *H. erectum*, glabrum; foliis ternatis oblongo-lanceolatis vel ellipticis glabris, stipulis subulatis panicula terminali, lomenti articulis (4) rhombeis pubescentibus.—*Willd. sp. pl. 3. p. 1196*.

Icon. *Pluk. mant. t. 432. f. 6*.

In dry woods and fields: New York to Carolina. *2'*. June—Aug. *v. v.* Flowers purple.

10. *H. stricte-erectum*, glabrum, simplex; foliis petiolatis ternatis lineari-ellipticis glabris reticulato-venosis subtus glaucis, stipulis subulatis, panicula terminali pedunculata pauciflora. *strictum*.

In pine-woods of New Jersey. *2'*. July, Aug. *v. v.* Flowers small, pale purple; seeds not known.

11. *H. erectum*, glabrum; foliis ternatis petiolatis ovato-oblongis longe-acuminatis glabris margine scabris, stipulis ovato-lanceolatis, panicula terminali, articulis lomenti triangularibus reticulatis glabris margine pubescentibus.—*Willd. sp. pl. 3. p. 1198*. *cuspidatum*.

In shady woods: Pennsylvania and Virginia. *2'*. July, Aug. *v. v.* Flowers violet.

12. *H. erectum*, simplex, pubescens, summitate frondosum; foliis ternatis ovatis longe acuminatis utrinque rariter adpresso-pilosis longissime petiolatis: impari rotundato-subrhomboideo, panicula terminali longissime pedunculata.—*Mich. fl. amer. 2. p. 72*. *acuminatum*.

In shady woods: New England to Carolina. *2'*. July, Aug. *v. v.* Not above a foot high; flowers purple. It approaches near the foregoing species, and is the connecting link between that and the following.

13. *H. erectum*, simplex, glabriusculum; foliis ternatis lato-ovalibus acuminatis, scapo paniculato glabro radicali caule foliifero altiore, lomenti articulis subrotundo-triangularibus glabriusculis.—*Willd. sp. pl. 3. p. 1198*. *nudiflorum*.

In woods and old fields: New England to Carolina. *2'*. June—Sept. *v. v.* About a foot high; flowers purple.

14. *H. erectum*, simplex; foliis longe petiolatis ternatis subrotundo-ovatis acuminatis, panicula scapiformi e caulis *glutinosum*.

basal, pedunculis piloso-viscosis, lomenti articulis oblongo-triangularibus glabrisculis.—*Willd. sp. pl.* 3. p. 1198.

In dry shady places, in the western parts of Pennsylvania and Virginia. *W.* July, Aug. *v. v.* Flowers purple.

*lineatum.*

15. *H. caule repente viridi lineato, foliis subsessilibus ternatis suborbiculatis, racemis elongatis laxae parvifloris, lomenti articulis lenticularibus.*—*Mich. fl. amer.* 2. p. 72.

In Carolina. *Michaux. W.* +.

*rotundifolium.*

16. *H. prostratum, hirsutum; foliis ternatis orbiculatis utrinque pilosis, stipulis rotundato-cordatis reflexis, racemis axillaribus et paniculato-terminalibus paucifloris, bracteis cordatis, lomenti articulis subrhomboideis reticulatis scabris.*—*Mich. fl. amer.* 2. p. 72.

In rocky, dry situations: Pennsylvania to Carolina. *W.* July, Aug. *v. v.* A handsome species: flowers purple.

*alpinum.*  
*β. americanum.*

17. *H. erectum; foliis pinnatis: foliolis ovali-oblongis vilosis, stipulis subvaginantibus, leguminibus patulis glabris ex utraque sutura articulatis: articulis brevi-ovalibus.* *Mich. fl. amer.* 2. p. 74.

In the north of Canada, and near the cataracts of the Allegany mountains. *Michaux. W.* +. Flowers purple.

582. *ZORNIA. Mich. fl. amer.* 2. p. 76. *Gmel. syst. veg.* 1096.

*tetraphylla.*

1. *Z. foliis digitato-quadrifoliatis: foliolis lanceolatis glabris, spicis axillaribus pedunculatis, floribus alternis bibracteatis, bracteis suborbiculatis.*—*Mich. fl. amer.* 2. p. 76.

*Z. bracteata. Gmel.*

*Hedysarum tetraphyllum. Lam. encycl.* 6. p. 405.

*Anonymos bracteata. Walt. fl. car.* 181.

*Icon. Mich. fl. amer.* 2. t. 41.

In sandy fields of Lower Carolina. *W.* July, Aug. *v. s.* in *Herb. Enslen.* About a foot high, very branching: flowers yellow.

583. *A.*

1. *A. caule*  
7—9. ob  
bescente  
mer. 3. *W.*  
On the ov  
island, C

2. *A. caule*  
multijug  
branacei  
ris, lom  
*Hedysarum*  
On the ba  
as the ti  
Aug. *t.*  
finely v

584. *SES*

1. *S. glabra*  
glabris  
ris folio  
sis long  
*S. platycar*  
*Robinia ve*  
*Phaca flor*  
*Æschynom*  
In overflo  
Flowers

5

1. *G. caule*  
mis filii  
nibus ob  
*G. monoic*  
In low gr  
○. Jul  
a separ  
show th  
*Glycine*

2. *G. caule*  
glabris  
corollat

583. *ÆSCHYNOMENE*. *Gen. pl.* 1202.

1. A. caule prostrato gracili viscido-pubescente, foliis 7-9. obovalibus, pedunculis subbifloris, lomento pubescente profunda incisura articulata.—*Mich. fl. amer.* 3. p. 74.

On the overflowed sands of Florida, and Cumberland island, Georgia. *Michaux.* ☉. +.

2. A. caule erecto petiolisque tuberculato-hispido, foliis multijugis: foliolis linearibus obtusis, stipulis membranaceis semisagittatis, racemis simplicibus paucifloris, lomentis hispida.—*Willd. sp. pl.* 3. p. 1163.

*Hedysarum virginicum.* *Willd. sp. pl.* 3. p. 1212.

On the banks and islands of the principal rivers, as far as the tide flows: Pennsylvania to Carolina. ☉. July, Aug. v. v.; v. s. in *Herb. Gronov.* Flowers yellow, finely veined with red.

*viscidula.*

*hispida.*

584. *SESBANIA*. *Poiret in lam. encycl.* 7. p. 126.

1. S. glabra; foliis sub-20-jugis: foliolis oblongis obtusis glabris margine ciliatis, racemis pedunculatis paucifloris folio brevioribus, lomentis lato-lanceolatis compressis longis stipitatis subdispermis.

S. platycarpa. *Pers. syn.* 2. p. 316.

*Robinia vesicaria.* *Jacq. ic. rar.* 1. t. 48.

*Phaca floridana.* *Pers. syn.* 2. p. 331.

*Æschynomene platycarpa.* *Mich. fl. amer.* 2. p. 75.

In overflowed places: Carolina and Florida. ☉. v. s. Flowers yellow.

*disperma.*

585. *GLYCINE*. *Gen. pl.* 1182.

1. G. caule volubili, foliis ternatis ovatis acutis glabris, racemis filiformibus sub-3-floris, floribus apetalis, leguminibus oblongis dispermis.—*Willd. sp. pl.* 3. p. 1055.

G. monoica. *Schkuhr bot. anal.* 12. p. 20. t. 2.

In low grounds, among bushes: Virginia and Carolina.

☉. July, Aug. v. v. It might with propriety form a separate genus, if the following species did not show the strong claim it has to be still considered a *Glycine*.

2. G. caule gracili retrorsum piloso, foliis ternatis ovatis glabris membranaceis, racemis caulinis pendulis laxis corollatis plerumque sterilibus, bracteis suborbiculatis

*sarmentosa.*

*monoica.*

concavis, pedunculis radicalibus floribus apetalis fructiferis.—*Willd. sp. pl.* 3. p. 1055.

*G. bracteata. Sp. pl.* p. 754.

On the banks of rivulets in stony and shady places: New York to Carolina.  $\odot$ . July—Sept. v. v. The flowers on the stem resemble those of *Vicia Cracca*, they are pale blue, and seldom produce ripe fruit; the long radical tendrils have exceeding small flowers which produce a pod, generally with only one seed, which drops into the ground before maturity.

*comosa.*

3. *G. caule volubili, foliis ternatis ovato-lanceolatis acutis hirsutis, racemis lateralibus pendulis confertifloris, floribus omnibus fructiferis.*—*Willd. sp. pl.* 3. p. 1058.

In hedges near rivers and ditches: New York to Virginia.  $\mathcal{U}$ . July—Sept. v. v. Flowers blue, of the size and shape of the preceding species, to which it has a strong resemblance, but differs in being a perennial and robust plant, besides the other characters given.

*tomentosa.*

4. *G. caule volubili anguloso, foliis ternatis ovato-oblongis acutis pubescentibus, subtus rugoso-venosis tomentosis, racemis axillaribus petiolo brevioribus, leguminibus oblongis dispermis.*—*Willd. sp. pl.* 3. p. 1061.

*Icon. Dill. elth. t.* 26. f. 29.

*erecta.*

$\beta$ . *G. tomentosior; caule erecto, foliis oblongo-ovalibus. Trifolium erectum. Walt. fl. car.* . . . .

In sandy ground, among hedges:  $\beta$ . on road sides and old fields; Virginia to Georgia.  $\mathcal{U}$ . June—Aug. v. v. Flowers yellow.

*reniformis.*

5. *G. erecta, humilis, pubescens; foliis omnibus simplicibus reniformi-rotundatis rugosis reticulatis, junioribus tomentosis, racemis subsessilibus paucifloris, leguminibus compresso-ovatis dispermis.*

*G. tomentosa*  $\gamma$ . *monophylla. Mich. fl. amer.* 2. p. 63.

*Trifolium simplicifolium. Walt. fl. car.* 184.

In barren pine-woods: Carolina and Georgia.  $\mathcal{U}$ . July, Aug. v. s. Flowers yellow.

### 586. GALACTIA. Brown. *Mich. fl. amer.* 2. p. 61.

*mollis.*

1. *G. volubilis, molliter pubescens, subcanescens; foliis ternatis ovato-oblongis obtusis glabriusculis subtus glaucis, racemis axillaribus simplicibus elongatis paucifloris, leguminibus villosis.*—*Mich. fl. amer.* 2. p. 61.

Hedysarum

In pine-

Aug.

the siz

2. *G. prostr*

liptico-

glabris

cifloris

*fl. ame*

Dolichos

Ervum v

In pine-v

na.  $\mathcal{U}$

and ex

large,

mixed.

1. *C. foliis t*

lacinia

subens

*Icon. Di*

In hedges

Flower

namen

2. *C. foliis t*

toties r

ciebus

*fl. ame*

In hedges

lina,

of a pa

1. *R. foliis i*

pendul

bis.—

*Icon. Sc*

*arb. t.*

On dry f

Carolin

sweet-

same t

*Hedysarum volubile*. Willd. sp. pl. 3. p. 1204.

In pine-barrens: New Jersey to Carolina.  $\mathcal{A}$ . July, Aug. v. v. Flowers purple, with yellow and white, the size of *Hedysarum paniculatum*.

2. *G. prostrata*, subvolubilis, glabriuscula; foliis ternatis elliptico-oblongis obtusis utrinque emarginatis utrinque glabris, racemis axillaribus simplicibus abbreviatis paucifloris, calycibus glabris, leguminibus villosis.—*Mich. fl. amer.* 2. p. 62.

*glabella.*

*Dolichos regularis*. Willd. sp. pl. 3. p. 1049.

*Eryum volubile*. Walt. fl. car. 187.

In pine-woods and sandy fields: New Jersey to Carolina.  $\mathcal{A}$ . June—Sept. v. v. The roots are fusiform, and extend to a great depth: the flowers, though not large, are extremely pretty, purple, red and white mixed.

587. CLITORIA. Gen. pl. 1183.

1. *C. foliis ternatis ovatis calyce bracteis longiore 5-partito: laciniis subulatis incurvis divergentibus, leguminibus subensiformibus*.—Willd. sp. pl. 3. p. 1069.

Icon. Dill. elth. t. 76. f. 87.

In hedges: Virginia and Carolina.  $\mathcal{A}$ . July, Aug. v. v. Flowers large, beautiful blue, very handsome and ornamental.

*virginiana.*

2. *C. foliis ternatis, calyce bracteis lineari-lanceolatis multoties majore, oblongo-tubuloso 5-fido, legumine saccibus convexis toruloso, seminibus glutinosi*. Mich. fl. amer. 2. p. 62. Willd. sp. pl. 3. p. 1070.

In hedges on the banks of rivulets: Virginia and Carolina.  $\mathcal{A}$ . July—Sept. v. v. Flowers smaller and of a paler blue than the preceding.

*mariana.*

588. ROBINIA. Gen. pl. 1195.

1. *R. foliis impari-pinnatis, stipulis spinescentibus, racemis pendulis, calycis dentibus muticis, leguminibus lævibus*.—Willd. sp. pl. 3. p. 1131.

Icon. Schmidt arb. 32. Duham. arb. ed. nov. 16. Wagh. arb. t. 7. f. 19. Pluk. alm. t. 4.

On dry fertile ridges on the mountains, from Canada to Carolina.  $\mathcal{A}$ . May, June. v. v. Flowers white, sweet-scented. This highly ornamental tree is at the same time a most useful one: its wood is almost in-

*Pseudacacia.*

corruptible, and particularly calculated for posts of gates and fences. It is universally known by the name of *False Acacia*, in America *Locust-tree*.

*viscosa.*

2. *R. foliis impari-pinnatis, racemis axillaribus erectis confertifloris, calycibus acuminatis, ramis petiolis pedunculis leguminibusque glanduloso-viscosis.*—*Willd. sp. pl.* 3. p. 1131.

*R. glutinosa. Bot. mag.* 560.

Icon. *Vent. desc. pl. nov. t.* 4. *Duham. arb. ed. nov.* 17. On the banks of rivers in South Carolina, particularly on the Savannah.  $\frac{1}{2}$ . June, July. *v. v.* Flowers pale red, with white. This tree is highly ornamental; but its creeping roots are a great nuisance in small plantations.

*hispida.*

3. *R. foliis impari-pinnatis: foliolis rotundato-ovalibus mucronatis, racemis axillaribus suberectis, calycibus acuminatis, caule subinermi, ramis pedunculis calycibus leguminibusque hispidis.*—*Willd. sp. pl.* 3. p. 1132.

*R. montana. Bartr. catal.*

*R. rosea. Duham. arb. ed. nov.* 18.

Icon. *Bot. mag.* 311. *Schmidt arb.* 31. *Catesb. car.* 3. *t.* 20. *Mill. ic.* 244.

*rosea.*

- $\beta$ . *R. foliolis plerumque alternis, ramulis glabriusculis.*

On the high mountains of Virginia and Carolina.  $\frac{1}{2}$ . May—Sept. *v. v.* Flowers large, a beautiful rose-colour, inodorous. This elegant little shrub is one of the highest ornaments of our gardens and plantations. The var.  $\beta$ . is less hispid, and grows to a considerable large upright shrub, whereas the original *hispida* is a low straggling plant.

#### 589. INDIGOFERA. *Gen. pl.* 1205.

*caroliniana.*

1. *I. herbacea, erecta; foliis pinnatis: foliolis obovalibus, spicis folio longioribus pedunculatis, floribus distantibus, leguminibus pendulis subdispermis reticulato-venosis.*—*Walt. fl. car.* 187. *Mich. fl. amer.* 2. p. 68.

In sandy fields: Carolina to Florida.  $\frac{1}{2}$ . *v. s.* Flowers blue.

590

1. *T. erecta*

oblong

legum

*Pers.*

Galega v

In sandy

July.

some,

2. *T. prostrata*

bus:

bris,

tis sub

Galega v

In Georg

*Ensler*

of the

a trifol

Thoug

any oth

tioning

most s

3. *T. gracilis*

longo-

lis op

longis

Galega h

Galega s

In pine-

$\frac{1}{2}$ . Ju

1. *L. foliolis*

losis,

flore v

mine

On the

yellow

590. TEPHROSIA. *Pers. syn. 2. p. 329.*

1. *T. erecta, candicanti-villosa*; foliolis (17—21) ovali-oblongis acuminatis, racemo terminali brevi subsessili, leguminibus retrofalcatis villosis, calycibus lanatis.—*Pers. syn. 2. p. 329.*

*Galega virginiana, Pluk. alm. t. 23. f. 2.*

In sandy and dry woods: Canada to Florida. *℥. June, July. v. v.* About a foot high; flowers very handsome, rose-coloured and yellowish white.

2. *T. prostrata, pubescens*; foliis pinnatis quinis subsessilibus: foliolis cuneato-obovatis obtusissimis supra glabris, subtus sericeis, pedunculis oppositifoliis elongatis sub-3-floris, leguminibus rectiusculis. *chrysophylla.*

*Galega villosa, Mich. fl. amer. 2. p. 67.*

In Georgia. *Enslen. ℥. July, Aug. v. s. in Herb. Enslen.* Flowers purple. The singular circumstance of the nearly sessile leaves, gives it the appearance of a trifoliate plant, the lower pair representing stipulæ. Though Michaux's description answers very well in any other respect, I was led to doubt by his not mentioning the number of leaves, which is one of the most striking characters.

3. *T. gracilis, humifusa, pubescens*; foliolis (13—15) oblongo-ellipticis truncato-obtusis mucronatis, pedunculis oppositifoliis elongatis 3—5-floris, leguminibus oblongis falcatis hispidis. *hispidula.*

*Galega hispidula, Mich. fl. amer. 2. p. 68.*

*Galega spicata, Walt. fl. car. 188.*

In pine-woods and on slate-hills: Virginia to Georgia. *℥. July—Sept. v. v.* Flowers pale red.

591. LOTUS. *Gen. pl. 1212.*

1. *L. foliis ternatis subsessilibus oblongis acutis sericeo-villosis, pedunculis axillaribus unifloris folio longioribus, flore unibracteato, calycinis laciniis linearibus, legumine glabro longissimo. sericeus.*

On the banks of the Missouri. *☉. v. s.* Flowers yellow.

592. MEDICAGO. *Gen. pl.* 1214.*lupulina.*

1. *M. spicis ovalibus, leguminibus reniformibus monospermis stipulis integerrimis, foliolis obovatis, caulibus procumbentibus.*—*Willd. sp. pl.* 3. p. 1406.

Icon. *Schkuhr handb.* t. 212.

In gravelly soil, on road sides: Canada to Carolina. ☉.  
June—Sept. *v. v.* Flowers small, yellow.

*intertexta.*

2. *M. pedunculis subbifloris, leguminibus cochleatis ovalibus, aculeis pubescentibus setaceis distichis adpressis, stipulis ciliato-dentatis, foliolis obovatis dentatis.*—*Willd. sp. pl.* 3. p. 1411.

*M. polymorpha intertexta. Sp. pl.* 1098.

Icon. *Schkuhr handb.* 212. b.

In sandy fields: Carolina. July, Aug. *v. v.* Flowers yellow.

*Note.*—In addition to the observations under *Psoralea esculenta*, p. 475. it may be interesting to state, that A. B. Lambert, Esq. raised in the summer of 1812 a number of plants, the seeds of which were taken out of a specimen collected in the year 1805 by M. Lewis, Esq. Also, that this highly interesting plant is now growing at Messrs. Frasers, Sloane Square.

593. CICH  
lyph  
594. APAR  
silis.  
595. SCOR  
sus,  
596. CH  
597. CHO  
stipi  
rie.  
598. PREN  
subs  
599. LACT  
pitat  
bran  
600. SONC  
silis.  
601. HIER  
plex  
602. KRIG  
5-pl  
plex  
603. HYO  
teric  
caly  
604. TRO  
pus  
plex

## XVII. SYNGENESIA.

### I. ÆQUALIS.

#### \* *Ligulatæ.*

593. CICHORIUM. *Recept.* subpaleaceum. *Pappus* polyphyllus, paleaceus. *Cal.* calyculatus.
594. APARGIA. *Recept.* nudum. *Pappus* plumosus, sessilis. *Cal.* imbricatus.
595. SCORZONERA. *Recept.* nudum. *Pappus* plumosus, substipitatus. *Cal.* imbricatus, squamis marginibus scariosis.
596. ~~CHONDRILLA~~ TODON. *Recept.* nudum. *Pappus* plumosus, stipitatus. *Cal.* imbricatus, squamis laxiusculis.
597. CHONDRILLA. *Recept.* nudum. *Pappus* pilosus, stipitatus. *Cal.* calyculatus. *Flosculi* multiplici serie. *Sem.* rugosa.
598. PRENANTHES. *Recept.* nudum. *Pappus* simplex, subsessilis. *Cal.* calyculatus. *Flosculi* simplici serie.
599. LACTUCA. *Recept.* nudum. *Pappus* simplex, stipitatus. *Cal.* imbricatus, cylindricus, margine membranaceo. *Sem.* lævia.
600. SONCHUS. *Recept.* nudum. *Pappus* pilosus, sessilis. *Cal.* imbricatus, ventricosus.
601. HIERACIUM. *Recept.* nudiusculum. *Pappus* simplex, sessilis. *Cal.* imbricatus, ovatus.
602. KRIGIA. *Recept.* nudum. *Pappus* membranaceus, 5-phyllus, setis 5. iterstinctis. *Cal.* polyphyllus, simplex.
603. HYOSERIS. *Recept.* nudum. *Pappus* duplex: exterior capillaceus; interior paleaceo-aristatus. *Cal.* calyculatus.
604. TROXIMON. *Recept.* nudum, puncticulatum. *Pappus* pilosus, sessilis. *Cal.* oblongus, conicus, simplex, aut squamis inæqualibus imbricatus.

\*\* *Flosculosæ.*

605. **STOKESIA.** *Recept.* nudum. *Pappus* 4-setosus. *Cal.* foliaceus, subimbricatus. *Cor.* radiata: corollulis radii infundibuliformibus, irregularibus.
606. **ARCTIUM.** *Recept.* paleaceum. *Pappus* setoso-paleaceus. *Cal.* globosus: squamis apice hamis inflexis.
607. **CNICUS.** *Recept.* villosus. *Pappus* plumosus. *Cal.* imbricatus, ventricosus.
608. **CARDUUS.** *Recept.* villosus. *Pappus* capillaris. *Cal.* imbricatus, ventricosus.
609. **LIATRIS.** *Recept.* nudum. *Pappus* plumosus, coloratus. *Cal.* oblongus, imbricatus.
610. **VERNONIA.** *Recept.* nudum. *Pappus* duplex: exterior paleaceus, brevis; interior capillaris. *Cal.* ovatus, imbricatus.
611. **KUHNIA.** *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus, cylindraceus.
612. **EUPATORIUM.** *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus, cylindricus. *Stylus* semibifidus, longus.
613. **MIKANIA.** *Recept.* nudum. *Pappus* pilosus s. plumosus. *Cal.* 4—6-phyllus, 4—6-florus. *Stylus* semibifidus, longus.
614. **CHRYSOCOMA.** *Recept.* nudum. *Pappus* pilosus. *Cal.* imbricatus. *Stylus* vix flosculis longior.
615. **CACALIA.** *Recept.* nudum. *Pappus* pilosus. *Cal.* cylindricus, basi calyculatus.
616. **SPARGANOPHORUS.** *Recept.* nudum. *Sem.* coronatum cupula subcartilaginea, integerrima, nitida. *Cal.* subglobosus, imbricatus: squamis apice recurvatis.
617. **HYMENOPAPPUS.** *Recept.* nudum. *Pappus* polyphyllus, paleaceus. *Cal.* polyphyllus, patens.
618. **MELANANTHERA.** *Recept.* paleaceum: paleis flosculos inferne amplexantibus. *Pappus* aristis inæqualibus, 4—5-inermibus. *Cal.* imbricatus: squamis ovatis, appressis, subæqualibus.
619. **MARSHALLIA.** *Recept.* paleaceum. *Pappus* paleis 5. membranaceis, acuminatis. *Cal.* imbricatus: squamis subanceolatis incumbens.
620. **SANTOLINA.** *Recept.* paleaceum. *Pappus* nullus. *Cal.* imbricatus, hemisphaericus: squamis carinatis apice scariosis.

621. **ARTE...**  
*Cor.* ...  
datis,
622. **TANA...**  
ginat  
tus, h
623. **BACCI...**  
*Floscu*  
bricat
624. **CONY...**  
pillari  
mis li
625. **GNAP...**  
sus.  
datis,
626. **BELLI...**  
mispl
627. **CHRY...**  
nullu  
intim
628. **PYRE...**  
tus.
629. **ARNI...**  
sus.  
long  
absq
630. **CINE...**  
*Cal.*
631. **SENE...**  
cylind
632. **TUSS...**  
*Cor.*  
squa  
nace
633. **INUI...**  
imbr
634. **ERIG...**  
radii

## II. SUPERFLUA.

\* *Discoidei.*

621. *ARTEMISIA*. *Recept.* subnudum. *Pappus* nullus. *Cor.* radii nullæ. *Cal.* imbricatus: squamis rotundatis, conniventibus.
622. *TANACETUM*. *Recept.* nudum. *Pappus* submarginatus. *Cor.* radii obsoletæ, 3-fidæ. *Cal.* imbricatus, hemisphæricus: squamis acuminatis.
623. *BACCHARIS*. *Recept.* nudum. *Pappus* pilosus. *Floscul.* feminei hermaphroditis immixti. *Cal.* imbricatus, cylindricus: squamis ovatis subcoriaceis.
624. *CONYZA*. *Recept.* nudum. *Pappus* simplex, capillaris. *Cor.* radii 3-fidæ. *Cal.* imbricatus: squamis linearibus aut ovatis.
625. *GNAPHALIUM*. *Recept.* nudum. *Pappus* plumosus. *Cal.* imbricatus: squamis marginalibus rotundatis, scariosis, coloratis.

\*\* *Radiati.*

626. *BELLIS*. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus: squamis æqualibus. *Sem.* obovata.
627. *CHRYSANTHEMUM*. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus; squamis intimis scariosis.
628. *PYRETHRUM*. *Recept.* nudum. *Pappus* marginatus. *Cal.* squamis acutiusculis margine scariosis.
629. *ARNICA*. *Recept.* nudum. *Pappus* simplex, pilosus. *Cal.* hemisphæricus; foliolis subæqualibus discolorioribus. *Cor.* radii (luteæ) sæpius filamentis 5. absque antheris.
630. *CINERARIA*. *Recept.* nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis.
631. *SENECIO*. *Recept.* nudum. *Pappus* simplex. *Cal.* cylindricus, calyculatus: squamis apice sphacelatis.
632. *TUSSILAGO*. *Recept.* nudum. *Pappus* simplex. *Cor.* femineæ ligulatæ s. edentulæ. *Cal.* simplex: squamæ æquales, discus æquantes, submembranaceæ.
633. *INULA*. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii numerosæ (luteæ).
634. *ERIGERON*. *Recept.* nudum. *Pappus* pilosus. *Cor.* radii capillares (coloratæ).

635. **SOLIDAGO.** *Recept.* nudum, punctis exaratum. *Pappus simplex.* *Cor.* radii circiter 5. (flavæ). *Cal.* squamæ imbricatæ, clausæ.
636. **ASTER.** *Recept.* nudum, scrobiculatum. *Pappus pilosus.* *Cor.* radii plures, sæpius 10. (aut pauciores, colorati). (*Cal.* imbricati squamæ inferiores patulæ.
637. **DONIA.** *Recept.* nudum, favosum. *Pappus 3-4-* aristatus, deciduus. *Cor.* radii plures (30-35 flavi). *Cal.* hemisphæricus, imbricatus: squamis interioribus cartilagineis, coloratis.
638. **BCEBERA.** *Recept.* nudum. *Pappus pilosus.* *Cal.* duplex: exterior polyphyllus, interior octophyllus.
639. **ACTINELLA.** *Recept.* nudum, *Pappus polyphyllus* (4-6), paleaceo-aristatus. *Cal.* polyphyllus, æqualis.
640. **HELENIIUM.** *Recept.* nudum: radii paleaceum. *Pappus 5-aristatus.* *Cor.* radii 3-fidis. *Cal.* simplex, multipartitus.
641. **BOLTONIA.** *Recept.* favosum. *Pappus* dentato-aristatus: aristis duabus oppositis interdum elongatis. *Cor.* radii plurimæ. *Cal.* imbricatus.
642. **SIEGESBECKIA.** *Recept.* paleaceum. *Pappus nullus.* *Radius* dimidiatus. *Cal.* exterior 5-phyllus, proprius patens. *Sem.* sub-4-gona.
643. **PHÆTHUSA.** *Recept.* paleaceum. *Pappus nullus.* *Flosculi* radii 1-3. *Cal.* imbricatus. *Sem.* hispida.
644. **ECLIPTA.** *Recept.* paleaceum. *Pappus nullus.* *Cor.* disci 4-fidæ. *Sem.* subcompresso-marginata, obsolete 2-3-dentata.
645. **ANTHEMIS.** *Recept.* paleaceum: paleis planis, apice acuminatis, rigidis. *Pappus nullus* s. margo membranaceus. *Flores* radii plures quam 5. *Cal.* hemisphæricus, subæqualis.
646. **ACHILLEA.** *Recept.* paleaceum. *Pappus nullus.* *Flores* radii circiter 5., dilatati. *Cal.* ovatus, imbricatus. (*Flores corymbosi.*)
647. **TETRAGONOTHECA.** *Recept.* paleaceum. *Pappus nullus.* *Cal.* monophyllus, 4-gonus, 4-partitus, latissimus.
648. **HELIOPSIS.** *Recept.* paleaceum, conicum. *Pappus nullus.* *Cor.* radii lineares, magnæ. *Cal.* imbricatus: squamis ovatis, lineatis. *Sem.* 4-gona.
649. **BUPHTHALMUM.** *Recept.* paleaceum. *Pappus* margo obsoletus s. 4-dentatus. *Cal.* foliaceus. *Sem.* latera, præsertim radii, marginata.

650. **AMEL**  
*Cor. r.*

651. **VERBE**  
tus.

652. **ZINNI**  
erectis  
tus, o

653. **BIDEN**  
calyce  
2. s. 4  
diati:  
subæq

654. **COREC**  
radiati  
pressa  
tosa:

655. **HELIA**  
pus di  
rosus,

656. **GALAB**  
*Pappus*

657. **RUDBI**  
*pus m*  
maru

658. **CENTA**  
*Cor. r.*

659. **CHAPT**  
*Flosculi*  
*Flosculi*

660. **SILPHI**  
bicornu  
pressa

661. **POLY**  
*Cal. c*  
lus, f

662. **CHRY**

650. AMELLUS. *Recept.* paleaceum. *Pappus* pilosus. *Cor.* radii indivisæ. *Cal.* imbricatus.
651. VERBESINA. *Recept.* paleaceum. *Pappus* aristatus. *Flosc.* radii circiter 5. *Cal.* duplici ordine.
652. ZINNIA. *Recept.* paleaceum. *Pappus* aristis 2. erectis. *Radius* 3-florus, persistens. *Cal.* imbricatus, ovato-cylindricus.

## III. FRUSTRANEA.

653. BIDENS. *Recept.* paleaceum: paleis extimis quasi calycem communem constituentibus. *Pappus* aristis 2. s. 4. retrorsum. *Flores* flosculosi aut etiam radiati: radiis neutris aut imperfecte masculis. *Cal.* subæqualis, calyculatus.
654. COREOPSIS. *Recept.* et *Cal. comm.* Bidentis. *Flores* radiati: radiis neutris, prolaxis (luteis). *Sem.* compressa aut emarginata, aut bidentata, aut etiam bisetosa: setis inermibus nec retrorsum aculeatis.
655. HELIANTHUS. *Recept.* paleaceum, planum. *Pappus* diphyllus, caducus. *Cal.* imbricatus, subsquarrosus, foliaceus.
656. GALARDIA. *Recept.* paleaceum, hemisphæricum. *Pappus* paleaceus, polyphyl<sup>l</sup>. *Cor.* radii 3-partitæ. *Cal.* polyphyllus, planus.
657. RUDBECKIA. *Recept.* paleaceum, conicum. *Pappus* margine 4-dentato. *Cal.* duplici ordine squamarum.
658. CENTAUREA. *Recept.* setosum. *Pappus* pilosus. *Cor.* radii infundibuliformes, irregulares. *Cal.* varius.

## IV. NECESSARIA.

659. CHAPTALIA. *Recept.* nudum. *Pappus* capillaris. *Flosculi* radii in duplici serie difformes, feminei. *Flosculi disci masculi* bilabiati.
660. SILPHIUM. *Recept.* paleaceum. *Pappus* marginato-bicornis. *Cal.* squarrosus, foliaceus. *Sem.* compressa, obcordata, marginata.
661. POLYMNIA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* duplex: exterior 4-5-phyllus; interior 10-phyllus. foliolis concavis.
662. CHRYSOGONUM. *Recept.* paleaceum. *Pappus* 1-

- phyllus, 3-dentatus. *Cal.* 5-phyllus. *Sem.* calyculo 4-phylo involuta.
663. BALTIMORA. *Recept.* paleaceum. *Pappus* nullus. *Flosc.* radii 5. *Cal.* cylindricus, polyphyllus. *Sem.* 3-quetra.
664. PARTHENIUM. *Recept.* paleaceum, planum. *Pappus* nullus. *Cal.* 5-phyllus. *Sem.* obovata.
665. IVA. *Recept.* pilosum. *Pappus* nullus. *Cor.* radii 5. *Antheræ* approximatae, non coalitæ. *Styli* 2. longi. *Cor.* radii 5. femineis minimis. *Cal.* 3-phyllus.
666. AMBROSIA. *Monoica. Masc. Recept.* nudum. *Antheræ* approximatae, non coalitæ. *Cal.* 1-phyllus, hemisphaericus, multiflorus. *Fem. Cal.* 1-phyllus, subinteger aut 5-dentatus, 1-florus. *Cor.* nulla. *Styli* 2. *Nas* e calyce indurato, 1-sperma.
667. XANTHIUM. *Monoicum. Masc. Recept.* paleaceum. *Antheræ* approximatae, non coalitæ. *Cal.* polyphyllus, imbricatus, hemisphaericus, multiflorus. *Fem. Cal.* involucrium 2-phyllum, 2-florum. *Cor.* 0. *Stigm.* 2. *Drupa* sicca, muricata, 2-fida. *Nucleus* 2-ocularis.

## V. SEGREGATA.

668. ELEPHANTEPUS. *Recept.* nudum. *Pappus* setaceus. *Calyculus* 4-florus. *Corollulae* ligulatae, hermaphroditæ.

## I. ÆQUALIS.

593. CICHORIUM. *Gen. pl.* 1251.

*Intybus.*

1. C. floribus axillaribus geminis subsessilibus, foliis runcinatis. *Willd. sp. pl.* 3. p. 1624.  
*Icon. Fl. dan.* 907. *Engl. bot.* 539.  
 In fields and on road sides: Pennsylvania, near Philadelphia. Most certainly introduced from Europe.  $\frac{1}{2}$ .  
 July, Aug. v. v. Flowers beautiful blue.

1. A. scapi  
 runcin  
 p. 155  
 Leontod  
 Hedypn  
 Icon. Fl  
 In pastur  
 Sept.  
 is prob

59

1. S. caule  
 ceolati  
 dentati  
 Leontodo  
 In waste

59

1. L. calyce  
 natis gl  
 pl. 3. p  
 Icon. Fl.  
 Common  
 2. Ap  
 rally k  
 another  
 conside  
 to give

597

1. C. glaberr  
 tegerrin  
 floris.  
 In Lowe  
 bright y  
 are from  
 leaves.

594. APARGIA. *Gen. pl.* 1232.

1. *A. scapis ramosis declinatis squamosis, foliis lanceolatis autumnalis.*  
 runcinato-pinnatifidis glabriusculis. *Willd. sp. pl.* 3.  
*p.* 1550.

*Leontodon autumnale Sp. pl.* 1123.

*Hedypnois autumnalis. Smith fl. brit.* 2. *p.* 826.

*Icon. Fl. dan.* 501. *Engl. bot.* 830.

In pastures and on road sides: New England. *4.* Aug.

Sept. *v. v.* Flowers golden-yellow, outside red. It is probably an introduced plant.

595. SCORZONERA. *Gen. pl.* 1230.

1. *S. caule erecto 3-floro, pedunculis elongatis, foliis lan-* *pinnatifida,*  
 ceolatis acutissimis acute-pinnatifidis interdum rariter  
 dentatis. *Mich. fl. amer.* 2. *p.* 89.

*Leontodon carolinianum. Walt. fl. car.* 192.

In waste places: Carolina. *Michaux.* +.

596. LEONTODON. *Gen. pl.* 1237.

1. *L. calyce exteriore reflexo, scapo unifloro, foliis runci-* *Taraxacum.*  
 natis glabris, laciniis lanceolatis dentatis. *Willd. sp.*  
*pl.* 3. *p.* 1544.

*Icon. Fl. dan.* 574. *Engl. bot.* 510.

Common in fields and grass plots; probably introduced.

*4.* April—July. *v. v.* Flowers yellow; it is generally known by the name of *Dandelion*. There is another species, found in shady wet woods, which I consider indigenous, but I have no materials in hand to give its description.

597. CHONDRILLA. *Gen. pl.* 1235.

1. *C. glaberrimum, multicaule; foliis lineari-lanceolatis in-* *laevigata.*  
 tegerrimis, pedunculis 2-3. longissimis subaphyllis uni-  
 floris.

In Lower Virginia. *3.* Aug. Sept. *v. v.* Flowers bright yellow; pappus turns a pale red; the peduncles are from six to ten inches long, with a few linear, small leaves.

598. PRENANTHES. *Gen. pl.* 1236.

- juncea.* 1. *P. caule virgatim-ramosissimo sulcato glabro, foliis caulinis remotis subulatis brevissimis, ramulis unifloris, calycibus 5-fidis 5-floris: foliolis margine membranaceis.*  
On the banks of the Missouri. *U. v. s.* Flowers purple; it has a striking resemblance to *Chondrilla juncea*; but the leaves are shorter, and the pappus entirely sessile; the radical leaves I have not seen.
- altissima.* 2. *P. caule ramoso, foliis trilobis petiolatis angulatis denticulatis margine scabris, racemis axillaribus, floribus nutantibus, calycibus sub-5-floris.—Willd. sp. pl. 3. p. 1537.*  
*Icon. Pluk. alm. t. 317. f. 2.*  
In shady woods: Canada to Virginia. *U.* July—Sept. *v. v.* Flowers yellow. Generally a very tall robust plant.
- cordata.* 3. *P. caule superne paniculato, foliis petiolatis cordatis dentatis ciliatis, floralibus sessilibus oblongis integerrimis, panicula laxa racemiflora, floribus nutantibus, calycibus 6-fidis 6-floris.—Willd. hort. berol. 25.*  
In shady woods, about rocks; New York to Virginia. *U.* Aug.—Oct. *v. v.* Flowers pale yellow. It is an intermediate species between the preceding and *P. alba*.
- virgata.* 4. *P. glabra; caule simplicissimo, foliis omnibus lyrato-sinuatis, racemulis subsecundis, floribus pendulis, calycibus glabris 8-fidis 10-floris.—Mich. fl. amer. 2. p. 83.*  
*P. autumnalis. Walt. fl. car. 193.*  
In sandy fields, near ditches: New Jersey to Carolina. *U.* Aug. Sept. *v. v.* From three to six feet; flowers pale purple. This plant has a very fine effect in large plantations. Michaux quotes Gronovius; but his *P. autumnalis* belongs to *P. rubicunda*.
- simplex.* 5. *P. caule simplicissimo, foliis superioribus lineari-lanceolatis integerrimis, radicalibus lanceolatis sinuatis, racemo terminali simplicissimo, floribus nutantibus, calycibus sub-8-floris.*  
*P. virgata. Willd. sp. pl. 3. p. 1533.*  
In Carolina. *Enslen. U.* July, Aug. *v. s. in Herb. Enslen.* About two feet high; flowers purple.

foliis cau-  
unifloris,  
membra-

wers pur-  
la juncea;  
tirely ses-

atis denti-  
floribus  
sp. pl. 3.

ly—Sept.  
all robust

dati den-  
egerrimis,  
s, calyci-

Virginia.  
w. It is  
eding and

us lyrato-  
adulis, ca-  
amer. 2.

Carolina.  
et; flow-  
e effect in  
vius; but

ari-lanceo-  
nuatis, ra-  
ntibus, ca-

in Herb.  
ple.



*P. nuda japonica.*

6. *P. folia*  
angul  
citor  
sub-2  
In Illino  
chaus
7. *P. folia*  
caulin  
lance  
tantit  
pl. 3.  
*P. suavi*  
Icon. *E*  
In shady  
Sept.  
flowe
8. *P. folia*  
rimis  
summ  
ribus  
*P. alba*  
*P. autum*  
In shady  
Oct.  
eichte
9. *P. folia*  
caulin  
lacinia  
cemis  
calyci  
On the  
—Oc  
purple  
the r  
speci  
my tr  
an op  
this r  
the S  
snake  
infla  
imme  
boiled  
steep  
he wa

6. *P. foliis lato-lanceolatis in petiolum attenuatis inæqualiter angulato-dentatis, panicula fasciculis terminalibus paucifloris nutantibus, calycibus hirsutis 10—12-fidis sub-20-floris.*—*Mich. fl. amer. 2. p. 84.*  
In Illinois and on the high mountains of Carolina. *Michaux. 2. +.*  
*crepidina.*
7. *P. foliis radicalibus angulato-hastatis dentatis sublobatis, caulinis subrotundo-ovatis dentatis petiolatis, summis lanceolatis, panicula laxa, fasciculis terminalibus nutantibus, calycibus 8-fidis 9-10-floris.*—*Willd. sp. pl. 3. p. 1836.*  
*P. suavis. Parad. lond. 85.*  
*Icon. Bot. mag. 1079.*  
In shady woods: New England to Carolina. *2. Aug. Sept. v. v.* About two feet high; calyces purple, flowers white.  
*alba.*
8. *P. foliis ciliatis, radicalibus hastato-angulatis subintegerrimis, inferioribus obovatis basi attenuatis subangulatis, summis lanceolatis integerrimis, racemo simplici, floribus nutantibus.*—*Willd. sp. pl. 3. p. 1337.*  
*P. alba β. Sp. pl. 1122.*  
*P. autumnalis. Gron. fl. virg. 1. p. 89.*  
In shady woods: Pennsylvania to Carolina. *2. Aug.—Oct. v. v.* Resembles the preceding; not above eighteen inches high.  
*rubicunda.*
9. *P. foliis dentatis asperis, radicalibus palmato-sinuatis, caulinis longe petiolatis sinuato-pinnatifidis subtrilobis: lacinia intermedia 3-partita, summis lanceolatis, racemis terminalibus subpaniculatis brevibus nutantibus, calycibus 8-fidis 12-floris.*  
On the mountains of Virginia and Carolina. *2. Aug.—Oct. v. v.* About two feet high; flowers pale purple. This plant is known by the inhabitants under the name of *Lion's-foot*, and is in high esteem as a specific in curing the bite of the rattlesnake. During my travels through the mountains of Virginia, I had an opportunity of being a witness of the efficacy of this remedy. A man living in Cove-mountains, near the Sweet-springs, was bit in the foot by a Mocassin snake, a species considered the most dangerous. An inflammation and swelling of his whole leg took place immediately; but by taking the milky juice of this plant boiled in milk, inwardly, and applying to the wound the steeped leaves, which were very frequently changed, he was cured in a few days. As this plant deserves  
*Serpentaria.*

the attention of the physician, I have given a figure of it, it being frequently confounded with another species of this genus, which probably may not have quite so strong an effect, as the inhabitants are very careful to have the true *Lion's-foot*, in case of accidents happening, and usually call the other species of *Prenanthes* *False Lion's-foot*. Gronovius, in his *Flora*, pag. 113, mentions Dr. Witt's *Snake-root* under *P. autumnalis* or Willdenow's *rubicunda*, as a remedy for the bite of the rattlesnake; which shows that he had information of the use made of this plant, though he did not know the genuine species. In the Banksian Herbarium is a specimen of *P. rubicunda*, with the following note in the hand-writing of Clayton: "This is the rattlesnake-root that Dr. Witt supposes to be the best cure for the bite of the snake, a very odd plant, hardly two leaves alike upon a plant, as to shape or the indentings of the leaves."

- racemosa*. 10. *P. caule simplici, foliis omnibus indivisis lævibus, radicalibus ovali-lanceolatis, caulinis semiamplexicaulibus, racemo oblongo hirsutissimo, fasciculis cernuis, calycibus 8-9-partitis 9-12-floris.* *Mich. fl. amer. 2. p. 84.*  
In the northern parts of Canada. *Michaux. +.*
- illinoensis*. 11. *P. caule simplici, foliisque asperimis, foliis omnibus indivisis ovali-lanceolatis, racemo longo, fasciculis subsessilibus erectis hirsutis.* *Pers. syn. 2. p. 366.*  
*P. aspera. Mich. fl. amer. 2. p. 83.*  
In natural meadows in the Illinois country. *Michaux. +.*

599. *LACTUCA. Gen. pl. 1234.*

- elongata*. 1. *L. foliis subtus lævibus, inferioribus runcinatis integerrimis amplexicaulibus, infimis dentatis, summis lanceolatis, floribus corymboso-paniculatis.* *Willd. enum. 817. Willd. sp. pl. 3. p. 1525.*  
*L. longifolia. Mich. fl. amer. 2. p. 85 ?*  
In woods, on road sides, in fertile soil: Canada to Carolina. ♂. Aug. Sept. v. v. From three to six feet high. Flowers small, pale yellow.
- graminifolia*. 2. *L. caule erecto simplici, foliis inernibus plerisque indivisis basi simplici longissime linearibus, panicula aphylla laxa, ramis rarifloris, floribus omnibus pedunculatis.* *Mich. fl. amer. 2. p. 85.*  
In Lower Carolina. *Michaux. +.*

1. *S. pedu*  
runci  
*Smith*  
Icon. *E*  
Among  
*U. A*

2. *S. pedu*  
foliis  
subsini  
Icon. *F*  
A comm  
—Sept

3. *S. pedu*  
lyratis  
*p. 15*  
*S. canad*  
Chondri  
In shady  
rolina  
feet h  
bus ;

4. *S. pedu*  
foliis  
*Willd*  
*S. mont*  
*S. cærul*  
*S. canad*  
Hieraci  
Icon. *F*  
In Cana  
somet

5. *S. pedu*  
cinati  
*sp. pl*  
*S. spicat*  
On the  
to Vi  
white

6. *S. pedu*  
rato-r  
*p. 15*

600. SONCHUS. *Gen. pl.* 1233.

1. *S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis denticulatis basi cordatis, radice repente.* *arvensis.*  
*Smith fl. brit. 2. p. 817. Willd. sp. pl. 3. p. 1512.*  
*Icon. Engl. bot. 674. Curt. fl. lond. 53.*  
 Among rubbish and in cultivated grounds: Pennsylvania.  
*℥. Aug. Sept. v. v. Flowers large, deep yellow.*
2. *S. pedunculis subtomentosis umbellatis, calycibus glabris, foliis oblongo-lanceolatis amplexicaulibus denticulatis subsinuatis.* *oleraceus.*  
*Willd. sp. pl. 3. p. 1514.*  
*Icon. Fl. dan. 682. Curt. fl. lond. 58.*  
 A common weed in most gardens and fields. ☉. July  
 —Sept. *v. v. Flowers yellow.*
3. *S. pedunculis hirsutis nudis, floribus paniculatis, foliis macrophyllis.*  
*lyratis basi cordatis subtus hirtis. Willd. sp. pl. 3.*  
*p. 1519.*  
*S. canadensis. Froelich. in usteri annal. 1. p. 29.*  
*Chondrilla sylvestris alta. Gronov. virg. 115.*  
 In shady low grounds, near springs: Pennsylvania to Carolina. *℥. Aug. Sept. v. v. From four to seven*  
*feet high; flowers blue, the size of Cichorium Inty-*  
*bis; root tuberous.*
4. *S. pedunculis hirsutis nudis, floribus racemosis bracteatis,* *alpinus.*  
*foliis runcinatis basi sagittatis glabris subtus glaucis.*  
*Willd. sp. pl. 3. p. 1519.*  
*S. montanus. Lam. encycl. 3. p. 401.*  
*S. cæruleus. Smith fl. brit. 2. p. 815.*  
*S. canadensis. Sp. pl. 1115.*  
*Hieracium cæruleum. Scop. fl. carn. n. 976.*  
*Icon. Fl. dan. 182.*  
 In Canada. *℥. Aug. Sept. v. s. Flowers blue, and*  
*sometimes white.*
5. *S. pedunculis squamosis, floribus racemosis, foliis runcinatis acuminatis, caule paniculato-virgato.* *leucophæus.*  
*Willd. sp. pl. 3. p. 1520.*  
*S. spicatus. Lam. encycl. 3. p. 401.*  
 On the borders of woods, on road sides: New England to Virginia. *♂. July—Sept. v. v. Flowers small,*  
*white, tinged with blue.*
6. *S. pedunculis subsquamosis, floribus paniculatis, foliis lyrato-runcinatis denticulatis petiolatis.* *floridanus.*  
*—Willd. sp. pl. 3.*  
*p. 1520.*

On road sides, in shady woods: Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers very small, blue. This plant has been used for curing the bite of the rattlesnake, in the same manner as *Prenanthes Serpentaria*, and is known by the name of *Gall of the Earth*.

- acuminatus.* 7. *S. pedunculis subsquamosis, floribus paniculatis, foliis radicalibus subruncinatis, caulinis ovatis acuminatis petiolatis medio denticulatis.*—*Willd. sp. pl.* 3. p. 1521.

*Lactuca villosa, Jacq. hort. schoenb.* 3. t. 367?

In low shady places: Pennsylvania to Virginia. ♂. Aug. Sept. *v. v.* Flowers small, blue.

- pallidus.* 8. *S. racemo composito terminali, foliis lanceolato-ensiformibus amplexicaulibus dentatis.* *Willd. sp. pl.* 3. p. 1521.

*Lactuca canadensis. Sp. pl.* 1119.

Icon. *Rob. ic.* 148 & 151.

On road sides and in woods: Canada to New England.

♀. July—Sept. *v. v.* Flowers small, yellow.

- pulchellus.* 9. *S. pedunculis squamosis, floribus corymboso-racemosis, foliis caulinis cordato-amplexicaulibus ovato-oblongis acutis integerrimis glabris.*

On the banks of the Missouri. ♀. Sept. *v. s.* Flowers large, beautiful blue.

#### 601. HIERACIUM. *Gen. pl.* 1238.

- pusillum.* 1. *H. pusillum, villosissimum; caule simplici erecto unifloro remote subbifoliato, foliis lanceolatis attenuatis acutis integerrimis, caulinis linearibus, calyce villosissimo.*—*Willd. sp. pl.* 3. 1561.

In Labrador. *Colmaster. ♀. July. v. s. in Herb. Dickson.* A very small plant; flowers, as in all the following species, yellow, the size of a common daisy. It strongly resembles *H. alpinum*, and is probably only a diminutive variety thereof.

- venosum.* 2. *H. scapo nudo corymboso-paniculato glabro, pedicellis filiformibus, foliis obovato-lanceolatis supra rariter pilosis, subtus nudis margine ciliatis glanduloso-denticulatis, venis coloratis, calycibus glabris.*—*Willd. sp. pl.* 3. p. 1570.

In shady fertile woods: Canada to Carolina. ♀. June—Aug. *v. v.* Flowers middle size, of a beautiful

yellow  
with  
*Poos*  
dera  
3. *H. sca*  
culis  
gerri  
subt  
*a. H. cau*  
amer  
β. *H. cau*  
*H. mar*  
Icon. *J*  
In woo  
July.  
4. *H. pilo*  
ciflor  
pauci  
p. 15  
Icon. *J*  
In Lab  
Herb  
5. *H. glab*  
albo-  
nudis  
p. 15  
In shad  
the  
very  
6. *H. caul*  
ceola  
culis  
*Will*  
In Pens  
leave  
Amer  
script  
7. *H. caul*  
latis  
argut  
divar  
culis  
*H. cana*  
In the  
VOL. II.

yellow; the light green leaves are elegantly marked with blood-red veins. It is known by the name of *Poor Robin's Plantain*, and thought to possess considerable medicinal powers.

3. H. scapo folioso corymboso-paniculato, calycibus pedunculisque glanduloso-pilosis, foliis obovatis obtusis integerrimis, supra rariter strigoso-villosis, nervo medio subtus villosissimo.—*Willd. sp. pl. 3. p. 1570.* *Gronovii.*

α. H. caule subunifoliato, panicula subfastigiata. *Mich. fl. amer. 2. p. 87.* nudicaule.

β. H. caule parce folioso, panicula oblonga. *Mich. l. c.* foliosum.

H. marianum. *Willd. sp. pl. 3. p. 1572.*

Icon. *Pluk. mant t. 3. O. f. 2.*

In woods and on dry hills: Canada to Carolina. *γ.* July, Aug. *v. v.* Flowers small.

4. H. pilosum; caule erecto simplici folioso, corymbo paucifloro, foliis oblongo-lanceolatis attenuatis inferne paucidentatis, radicalibus petiolatis.—*Willd. sp. pl. 3. p. 1577?* *molle.*

Icon. *Jacq. austr. t. 119.*

In Labrador. *Culmster. γ.* July—Sept. *v. s.* in *Herb. Dickson.* Flowers middle size.

5. H. glabriusculum; caule erecto folioso paniculato inferne albo-lanato, pedicellis capillaribus, foliis lanceolatis nudis dentatis membranaceis.—*Willd. sp. pl. 3. p. 1572.* *paniculatum.*

In shady woods: Canada to Carolina; principally on the mountains. *γ.* July—Sept. *v. v.* Flowers very small.

6. H. caule erecto multifloro glabro, foliis subsessilibus lanceolatis acuminatis extrorsum argute dentatis, pedunculis in apice caulis alternis subunifloris tomentosis.—*Willd. sp. pl. 3. p. 1598.* *Kalmii.*

In Pennsylvania. *Kalm. +.* Flowers small, upright, leaves small. It is singular, that in no part of North America could I find a plant answering to this description given by Linnæus.

7. H. caule erecto simplici villosa, foliis sessilibus lanceolatis acutis glabris subtus pilosis margine divaricato-argute-dentatis versus apicem integerrimis: dentibus divaricatis, panicula subcorymbosa, calycibus pedunculisque tomentosis.—*Lambert. herb. ms.* *virgatum.*

H. canadense. *Mich. fl. amer. 2. p. 86?*

In the western part of New York and Canada. *γ.*

July—Sept. *v. v.*; *v. s.* in *Herb. Lambert*. Flowers middle size.

- fasciculatum*. 8. *H. glabriusculum*; caule erecto folioso simplici glabro; foliis sessilibus oblongis acutis argute-dentatis: dentibus elongatis, ramis paniculae divaricatis brevibus, pedicellis subfasciculatis pubescentibus.

In Canada. *Masson*. *U. v. s.* in *Herb. Lambert*. A tall robust plant; flowers middle size.

- scabrum*. 9. *H. hirsutissimum*; caule erecto folioso hispido punctis fuscis scaberrimo, foliis oblongo-ovatis integris utrinque hirsutis, panicula simpliciuscula multiflora calycibusque glanduloso-hispidis, pedicellis brevibus divaricatis.—*Mich. fl. amer.* 2. p. 86.

In woods, in shady, rocky situations: Pennsylvania. *U.* Aug. Sept. *v. v.* From three to five feet high; flowers small.

- macrophyllum*. 10. *H. altissimum*; caule erecto folioso hispido sulcato, foliis cordato-semiamplexicaulibus ovato-oblongis remote grosse-dentatis nudiusculis, nervis venisque subtus pubescentibus, panicula divaricato-corymbosa, pedunculis elongatis nudis calycibusque glabris.

In Canada. *U. v. s.* in *Herb. Lambert*. A very robust plant; leaves the largest of the genus; flowers large.

#### 602. KRIGIA. *Gen. pl.* 1244.

- virginica*. 1. *K. pusilla*; foliis lyratis glaucis glabriusculis margine ciliatis, scapo 1-floro foliis duplo altiore, calyce sub-8-phyllo.—*Willd. sp. pl.* 3. p. 1618.

*Hyoseris virginica*. *Sp. pl.* 1138.

Icon. *Lam. journ. hist. nat.* 1. t. 12.

In pastures, grassy hills, fields, and road sides: Canada to Florida. *O.* May—July. *v. v.* Flowers deep yellow, small.

#### 603. HYOSERIS. *Gen. pl.* 1242.

- montana*. 1. *H. glaberrima*, procumbens; foliis lanceolatis integerrimis, scapo 1-floro.—*Mich. fl. amer.* 2. p. 87.

In the mountains of Carolina. *Michaux.* +.

- angustifolia*. 2. *H. foliis lineari-lanceolatis sensim acutissimis glabellis, dentibus rarioribus exertis, scapo 1-floro.* *Mich. fl. amer.* 3. p. 87.

*Hyoseris major*. *Walt. fl. car.* 194,

In field  
July,

3. *H. foliis*  
tis hi  
In Caro

#### 604. TROX

1. *T. scapo*  
foliis  
On the  
*Horti*

2. *T. glabro*  
foliis  
caulib  
p. 260

*Hyoseris*  
*Hyoseris*  
*Hyoseris*  
*Tragopo*  
In mead  
rolina  
flower

#### 605.

1. *S. foliis*  
1-flori  
Cartham  
Icon. *L*  
In South  
large,

1. *A. foliis*  
pahicu  
pl. 3.  
Icon. *F*  
On road  
frequ  
Com

In fields and pastures: Virginia and Carolina. ☉. ♂.  
July, Aug. *v. v.* Flowers large, bright yellow.

3. *H. foliis lyratis basi acutis superne dilatatis apice truncatis hirsutis, scapis 1-floris.*—*Walt. fl. car.* 194. *caroliniana*.  
In Carolina. *Walter.* +.

604. *TROXIMON.* *Gært. carp.* 2. p. 360. *Pers. syn.* 2. p. 360.

1. *T. scapo unifloro, calycinis foliolis imbricatis cuspidatis, foliis linearibus integerrimis utrinque glaucis.* *glaucum*.  
On the banks of the Missouri ♂. *v. s.*; *v. v.* in *Hortis*. Flowers bright yellow.
2. *T. glabrum, glaucum; caule erecto 2-3-fido subnudo, foliis glabris, radicalibus sublyratis, caulinis amplexicaulibus lanceolatis integerrimis glabris.*—*Pers. syn.* 2. p. 260. *virginicum*.

*Hyoseris amplexicaulis.* *Mich. fl. amet.* 2. p. 87.

*Hyoseris prenanthoides.* *Willd. sp. pl.* 3. p. 1615.

*Hyoseris biflora.* *Walt. fl. car.* 194.

*Tragopogon virginicum.* *Sp. pl.* p. 1111.

In meadows and moist shady woods: Pennsylvania to Carolina. ♀. July, Aug. *v. v.* About a foot high; flowers handsome, yellow.

605. *STOKESIA.* *L'Herit. sert. angl.* 27.

1. *S. foliis lanceolatis, caule folioso, pedunculis axillaribus 1-floris.*—*Willd. sp. pl.* 3. p. 1703. *cyanea*.  
*Carthamus lævis.* *Hill. kew.* p. 57. t. 5.  
Icon. *L'Herit. l. c. t.* 38.  
In South Carolina. ♀. *v. s.* in *Herb. Banks*. Flowers large, purple, very handsome.

606. *ARCTIUM.* *Gen. pl.* 1253.

1. *A. foliis caulinis cordatis petiolatis denticulatis, floribus paniculatis globosis, calycibus lævibus.*—*Willd. sp. pl.* 3. p. 163'. *Lappa*.  
Icon. *Fl. dan.* 642. *Engl. bot.* 1228.  
On road sides, among rubbish, and in cultivated grounds; frequent. ♂. July, Aug. *v. v.* Flowers purple.  
Common *Burdock*. Has probably been introduced.

## 607. CNICUS. Gen. pl. 1255.

- lanceolatus*. 1. *C. foliis decurrentibus hispidis pinnatifidis, laciniiis bilobis divaricatis spinosis, calycibus ovatis arachnoideo-pubescentibus, squamis lanceolatis spinosis patentibus.* Willd. *sp. pl.* 3. p. 1666.  
*Carduus lanceolatus.* *Sp. pl.* 1149.  
 On road sides; common every where. ♂. June—Sept. *v. v.* Flowers large, purple.
- altissimus*. 2. *C. foliis sessilibus oblongo-lanceolatis scabris subtus tomentosis dentatis ciliatis, radicalibus pinnatifidis, calycibus bracteatis ovatis, squamis ovato-lanceolatis spinosis adpressis.* Willd. *sp. pl.* 3. p. 1671.  
*Carduus altissimus.* *Sp. pl.* 1154.  
*Carduus virginianus.* *Walt. fl. car.* 195.  
*Cirsium repandum.* *Mich. fl. amer.* 2. p. 89.  
*Cirsium altissimum.* *Gron. fl. virg.* 117.  
 In old fields: Virginia and Carolina. ♀. July—Sept. *v. v.* Flowers large, purple.
- arvensis*. 3. *C. foliis sessilibus pinnatifidis glabriusculis ciliatis spinosis, caule paniculato, calycibus ovatis mucronatis, squamis lato-lanceolatis adpressis margine lanatis.*  
*Carduus arvensis.* *Smith fl. brit.* 2. p. 850.  
*Serratula arvensis.* Willd. *sp. pl.* 3. p. 1646.  
*Icon. Fl. dan.* 644. *Engl. bot.* 975. *Mart. fl. rust.* 132.  
 In fields and on road sides: Canada and New England. ♀. July—Sept. *v. v.* Flowers small, purple. It is one of the most troublesome weeds, and when once introduced on a plantation it is almost impossible to get rid of it.
- muticus*. 4. *C. foliis omnibus pinnatifidis subtus lanuginosis: laciniiis spinulosis sublanceolatis acutis, ramis in summitate pluribus nudiusculis unifloris, calyce globoso, squamis muticis.*  
*Cirsium muticum.* *Mich. fl. amer.* 2. p. 89.  
*Carduus carolinianus.* *Walt. fl. car.* 195.  
 In the mountains of Virginia and Carolina. ♂. July—Sept. *v. v.* Flowers middle-sized, purple.
- virginianus*. 5. *C. simpliciusculus; foliis sessilibus lanceolatis subtus cano-tomentosis remote dentatis, dentibus spinosis, floribus solitariis, calyce globoso, squamis mucronatis.*  
*Carduus virginianus.* Willd. *sp. pl.* 3. p. 1659.  
*Cirsium virginianum.* *Mich. fl. amer.* 2. p. 90.  
*Icon. Jacq. obs. bot.* 4. t. 99.

In the  
 Sept  
 6. *C. elat*  
 nosio  
 folio  
 Serratu  
 Cirsium  
 Carduu  
 On the  
 vania  
 flowe  
 1. *C. iner*  
 pecti  
 ris s  
 squar  
 In Pens  
 Arcti  
 1. *L. caul*  
 liatis  
 sessil  
 appre  
*L. spica*  
 Anony  
 Serratu  
 Icon. *L*  
 In natu  
 —O  
 all th  
 spike  
 2. *L. caul*  
 pube  
 bus,  
 amer  
 Anony  
 Icon. *L*  
 In mo  
 ♀.  
 flow

In the mountains of Virginia and Carolina.  $\mathcal{V}$ . July—Sept. *v. v.* Flowers purple.

6. *C. elatius*; foliis sessilibus pinnatifidis acute incisus spinosissimis, involucri terminali unifloro polyphylo: foliolis geminatim spinosissimis, calycibus inermibus. *Serratula discolor. Lam. encycl. 6. p. 565.*  
*Cirsium horridulum. Mich. fl. amer. 2. p. 90.*  
*Carduus spinosissimus. Walt. fl. car. 194.*

On the banks of rivers and borders of woods: Pennsylvania to Carolina.  $\mathcal{V}$ . July—Sept. *v. v.* Very tall; flowers large, pale yellow.

*horridulus.*

608. *CARDUUS. Gen. pl. 1254.*

1. *C. inermis*; foliis decurrentibus lanceolatis pinnatifido-pectinatis, pedunculis terminalibus longissimis unifloris subaphyllis, floribus defloratis cernuis calycinis squamis linearibus patulis.—*Willd. sp. pl. 3. p. 1655.*  
 In Pennsylvania.  $\mathcal{J}$ . +. Flowers purple, the size of *Arctium Lappa*. It probably is a species of *Cnicus*.

*pectinatus.*

609. *LIATRIS. Gen. pl. 1263.*

\* *Spicatae seu racemosae; bulbosae.*

1. *L. caule simplici, elato*; foliis linearibus glabris basi ciliatis nervosis et punctatis, spica longissima, floribus sessilibus, squamis calycinis lineari-oblongis obtusis appressis.—*Mich. fl. amer. 2. p. 91.*

*L. spicata. Willd. sp. pl. 3. p. 1636.*

*Anonymos graminifolius. Walt. fl. car. 197.*

*Serratula spicata. Sp. pl. 1147.*

Icon. *Bot. rep.* 401. *Pluk. atm. t. 424. f. 6.*

In natural meadows: Pennsylvania to Carolina.  $\mathcal{V}$ . Aug.—Oct. *v. v.* F. three to six feet high; flowers, as all the following species, purple, in very long and close spikes.

*macrostachya.*

2. *L. caule simplici hirsuto, foliis strictis angusto-linearibus pubescentibus, spica longa, floribus confertim sessilibus, calycibus appressis superne squarrosis.*—*Mich. fl. amer. 2. p. 91.*

*Anonymos pilosa. Walt. fl. car. 197.*

Icon. *Dill. elth. t. 72. f. 83.*

In mountain meadows: Virginia, Illinois, and Carolina.  $\mathcal{V}$ . Aug.—Oct. *v. v.* From two to four feet high; flowers smaller than No. 1.

*pynostachya.*

- graminifolia*. 3. *L. caule simplici glabro, foliis linearibus longissimis glabris nervosis margine scabriusculis costa media interne anpilosis, floribus spicatis remotiusculis subsessilibus, calycinis squamis oblongis obtusis mucronatis ciliatis appressis, interioribus coloratis.*—*Willd. sp. pl.* 3. p. 1636. *exclus. syn. Walteri.*  
*Serratula compta.* *Herb. Banks. mss.*  
 In South Carolina and Georgia. *Bartram.* *fl.* Aug.—Oct. *v. v.* About two or three feet high; flowers the size of No. 2; leaves very long and narrow.
- heterophylla*. 4. *L. caule simplici glabro, foliis lanceolatis glabris lævibus: superioribus lineari-lanceolatis multoties minoribus, calycibus spicatis brevissime pedunculatis subsquarrosis: squamis lanceolatis acutis nudis.*—*Willd. enum.* 503.  
*L. varia.* *Herb. Banks. mss.*  
 In South Carolina and Georgia. *Fraser. Bartram.* *fl.* Aug.—Oct. *v. s.* in *Herb. Banks. nec non Lambert.* Flowers the size of the preceding.
- aspera*. 5. *L. caule subramoso scabro-pubescente, foliis lineari-lanceolatis asperimis, calycibus brevibus spicatis distincte alternis solitariis sessilibus: squamis rotundato-obtusis conniventibus.*—*Mich. fl. amer.* 2. p. 92.  
*Anonymos ramosus.* *Walt. fl. car.* 198.  
 In South Carolina and Illinois. *Walter. Michaux.* *fl.* Aug.—Oct. *v. s.* Flowers larger than any of the foregoing species.
- cylindræa*. 6. *L. gracilis, tota hirsuta; foliis gramineis, spica rariflora, calycibus subsessilibus cylindræis paucifloris, squamis apice rotundatis abrupte mucronatis.* *Mich. fl. amer.* 2. p. 93.  
 In woods and meadows of South Carolina and Illinois. *fl.* Aug. Sept. *v. s.* in *Herb. Fraser.*
- pilosa*. 7. *L. caule simplici pubescente, foliis linearibus pilosis ciliatis, calycibus racemosis laxiusculis: squamis lineari-oblongis obtusiusculis, pedicellis bracteolatis.*—*Willd. sp. pl.* 3. p. 1636.  
*Anonymos ciliatus.* *Walt. fl. car.* 197.  
 In pine-barrens and sandy fields; New Jersey to Carolina. *fl.* Sept.—Nov. *v. v.* A low species; flowers the size of No. 2.
- gracilis*. 8. *L. caule simplici glabro, foliis linearibus nudis, calycibus racemosis subglobosis: squamis oblongis obtusiusculis appressis, pedicellis elongatis patentibus squamoso-bracteolatis.*

In Georgia. *Bartram*. Aug.—Oct. *v. s.* in *Herb. Banks*.  
Flowers smaller than any preceding species.

9. *L. caule simplici villosa, foliis linearibus subfalcatis scabro-punctatis, spica subfoliosa, pedicellis brevibus, calycinis squamis intimis ligulatis coloratis.*—*Willd.*  
*sp. pl.* 3. p. 1635.

*elegans.*

*Serratula speciosa.* *Ait. kew.* 3. p. 138.

*Stæhelina elegans.* *Walt. fl. car.* 202.

*Eupatorium speciosum.* *Vent. hort. cels.* 79.

In sandy fields: Carolina to Florida. 2. Sept.—Nov.  
*v. v.* A beautiful perennial; flowers in long close spikes, purplish-red.

10. *L. caule simplici pubescente, foliis lævibus: inferioribus petiolatis lato-lanceolatis, superioribus lanceolato-linearibus, calycibus racemosis solitariis alternis subglobosis; squamis ovatis acutiusculis erectis, margine ciliatis.*—*Mich. fl. amer.* 2. p. 92.

*sphæroidea.*

On high mountains of Virginia and Carolina. 2. Aug.—Oct. *v. v.* Flowers large and handsome.

11. *L. caule simplici subpubescente, foliis lanceolatis utrinque attenuatis glabris margine scabris, calycibus racemosis alternis distantibus inferne squarrosis; squamis spatulatis margine membranaceo coloratis.*—*Willd.*  
*sp. pl.* 3. p. 1635.

*scariosa.*

*L. squarrosa.* *Mich. fl. amer.* 2. p. 92.

*Serratula scariosa.* *Sp. pl.* 1147.

*Icon. Pluk alm. t.* 177. f. 4.

In mountain meadows: Virginia to Carolina. 2. Aug.—Oct. *v. v.* Flowers the size of No. 10.

12. *L. caule simplici pubescente, foliis longissime linearibus nervosis margine scabriusculis, racemis paucifloris foliosis, calycinis squamis superne foliaceis lanceolatis rigidis patentibus.*—*Willd. sp. pl.* 3. p. 1634.

*squarrosa.*

*Serratula squarrosa.* *Hort. cliff.* 392.

*Pteronia caroliniana.* *Walt. fl. car.* 202.

*Icon. Dill. elth. t.* 71. f. 82.

In sandy woods and fields: Virginia, Kentucky, and Carolina. 2. Sept. Oct. *v. v.* Flowers large, very handsome. This and the preceding are known among the inhabitants of those countries by the name of *Rattlesnake's Master*. In case of being bit by this horrible animal, they bruise the bulbs of this plant and apply it to the wound, while, at the same time, they make

a decoction of it in milk, which is taken inwardly, in the same manner as I have mentioned under *Prenanthes serpentaria*.

\*\* *Paniculatæ seu corymbosæ; non bulbosæ.*

- pauciflora.* 13. *L.* caule simplici glabro; foliis linearibus, panicula virgata foliosa, ramis brevibus pauciflora, calycibus subsessilibus secundis 3—5-floris: squamis erectis lanceolatis acutis glabris.

In Georgia, *Bartram*. *Æ. v. s. in Herb. Banks*. Flowers small, the size of No. 4.

- paniculata.* 14. *L.* caule simplici panicula calycibusque piloso-viscosis, foliis inferioribus lanceolatis attenuatis nervosis glabris: caulinis minoribus sessilibus, panicula coarctata fasciculata, calycibus sub-5-floris: squamis lanceolatis acutiusculis.—*Willd. sp. pl. 3. p. 1637.*

*Anonymos paniculatus. Walt. fl. car. 198.*

In pine-barrens: Virginia to Florida. *Æ. Aug.—Oct. v. s. in Herb. Enslen.* Flowers the smallest of all the species here enumerated.

- odoratissima.* 15. *L.* glaberrima; caule simplici; foliis radicalibus oblongis, caulinis amplexicaulibus, panicula corymbosa laxo-divaricata, calycibus sub-8-floris: squamis lanceolatis obtusiusculis.—*Willd. sp. pl. 3. p. 1637.*

*Anonymos odoratissimus. Walt. fl. car. 198.*

*Icon. Bot. rep. 633.*

In open swamps: Carolina to Florida. *Æ. Sept. Oct. v. v.* Flowers a little larger than the preceding. It is generally called *Carolina Vanilla-plant*. The leaves, when dry, give a very agreeable scent, resembling somewhat that of *Vanilla*, which they maintain for years if kept dry and inclosed.

- tomentosa.* 16. *L.* caule simplicissimo foliisque cuneato-lanceolatis hirsutis, corymbo paucifloro depresso divaricato, ramis 1—2-floris, calycibus tomentosis: squamis ovatis acutis.—*Mich. fl. amer. 2. p. 93.*

In open swamps: Virginia and North Carolina. *Æ. Aug.—Oct. v. v.* About eighteen inches high; flowers the size of No. 1.

- bellidifolia.* 17. *L.* pumila, glabella; foliis cuneato-oblanco-latis, corymbo inæquali, floribus omnibus longiuscule pedicellatis, calycinis squamis oblongo-obovalibus obtusis, *Mich. fl. amer. 2. p. 93.*

*Anonymos*  
In dry g  
*Æ. +*

61

1. *V. caule*  
oblongo  
lato.—

*Chrysocon*

a. *V. utroque*

β. *V. altero*

In South

as all t

2. *V. caule*

bus su

squamis

*Chrysocon*

In barren

Sept.

figure c

3. *V. foliis l*

bosis er

squamis

In natural

*Æ. Aug.*

4. *V. caule*

bris la

corymb

ticiis.—

*Serratula*

*Chrysocon*

*Icon. D*

*alm. t.*

On road

Carolin

looking

5. *V. altissi*

corymb

bus.—

*Serratula*

*Chrysocon*

*Icon. D*

On road

Aug.—

*Anonymos uniflorus*. *Walt. fl. car.* 198.  
In dry gravelly fields of North Carolina. *Michaux.*  
℥. +.

610. VERNONIA. *Gen. pl.* 1262.

1. V. caule simplici nudiusculo, foliis serratis: radicalibus oblongo-ovatis, caulinis lanceolatis, corymbo paniculato. — *Mich. fl. amer. 1. p.* 94.

*Chrysocoma acaulis*. *Walt. fl. car.* 196.

α. V. utroque flore pedunculato.

β. V. altero flore subsessili.

In South Carolina. ℥. v. s. in *Herb. Walter.* Flowers, as all the following, purple.

2. V. caule simplici, foliis crebris longe angustaque linearibus subintegris, corymbo subumbellato, calycinis squamis rigide mucronatis. *Mich. fl. amer. 2. p.* 94.

*Chrysocoma angustifolia*. *Walt. fl. car.* 196.

In barren sandy woods: Virginia to Georgia. ℥. Aug. Sept. v. s. in *Herb. Enslin.* Flowers the size and figure of *V. præalta*.

3. V. foliis longo-linearibus rariter serratis, floribus corymbosis erecto approximatis, calycibus ovoideis lævibus, squamis muticis. *Mich. fl. amer. 2. p.* 85.

In natural meadows: Illinois *Michaux.* Virginia. *Ph.* ℥. Aug.—Oct. v. v. Flowers small.

4. V. caule altissimo anguloso dense pubescente, foliis crebris lanceolatis acute serratis subtus pubescentibus, corymbo fastigiato, calycinis squamis ovatis acutis muticis. — *Willd. sp. pl. 3. p.* 1633.

*Serratula præalta*. *Sp. pl.* 1146.

*Chrysocoma tomentosa*. *Walt. fl. car.* 196.

Icon. *Dill. elth. t.* 264. f. 343. *Mill. ic.* 234. *Pluk. alm. t.* 280. f. 6.

On road sides and borders of woods: New England to Carolina. ℥. Aug.—Oct. v. v. A tall rough-looking plant.

5. V. altissima; foliis crebris lanceolatis serrulatis scabris, corymbo fastigiato, calycinis squamis apice filiformibus. — *Willd. sp. pl. 3. p.* 1632.

*Serratula noveboracensis*. *Hort. cliff.* 392.

*Chrysocoma gigantea*. *Walt. fl. car.* 196.

Icon. *Dill. elth. t.* 263. f. 342. *Pluk. alm. t.* 109. f. 3.

On road sides and old pastures: Canada to Carolina. ℥. Aug.—Oct. v. v. About five feet high.

*oligophylla.*

*verna.*  
*autumnalis.*

*angustifolia.*

*fasciculata.*

*præalta.*

*noveboracensis.*

611. KUHNIA. *Gen. pl.* 1272.Critonia. *Gært. carp.* 2. p. 411.Dalea. *Brown. jam.* 314.

- eupatorioides.* 1. *K. glabra*; foliis petiolatis lato-lanceolatis serratis, corymbo terminali paucifloro coarctato.—*Willd. sp. pl.* 3. p. 1772.

*Eupatorium alternifolium.* *Ard. spec.* 2. p. 40. t. 20.Icon. *Linn. fl. dec.* t. 11. *Pluk. alm.* t. 87. f. 2.

In shady woods, about rocks: Pennsylvania to Virginia.

♀. Aug. Sept. v. v. Flowers white; resembles an  
*Eupatorium* exceedingly.

*Critonia.*

2. *K. pubescens*; foliis angusto-lanceolatis inferne subdentatis petiolatis subtus punctatis: superioribus linearibus integerrimis sessilibus, panicula terminali divaricata.—*Willd. sp. pl.* 3. p. 1773.

*Critonia Kuhnia.* *Mich. fl. amer.* 2. p. 101.Icon. *Gært. carp.* 2. t. 174. f. 7.

On high mountains of Pennsylvania and Virginia. ♀.  
 Aug. Sept. v. v. Flowers pale yellow.

612. EUPATORIUM. *Gen. pl.* 1272.\* *Calycibus* 3—5-floris.*faeniculaceum.*

1. *E. caule paniculato*, foliis glabris inferioribus pinnatis, superioribus fasciculatis, omnibus filiformibus.—*Willd. sp. pl.* 3. p. 1750.

*E. faeniculoides.* *Walt. fl. car.* 199.*Chrysocoma capillacea.* *Mich. fl. amer.* 2. p. 101.

In fields and on road sides, near the sea-coast: Virginia  
 to Florida. ♀. Aug.—Oct. v. v. From two to five  
 feet high, resembling an *Artemisia* very much; flow-  
 ers in great abundance, small, pale yellow.

*coronopifolium.*

2. *E. caule paniculato*, foliis infimis pinnatifidis, reliquis indivisis fasciculatis linearibus integerrimis. *Willd. sp. pl.* 3. p. 1750.

*E. compositifolium.* *Walt. fl. car.* 199.*Chrysocoma coronopifolia.* *Mich. fl. amer.* 2. p. 102.

In dry woods, on road sides: Carolina. ♀. Aug. Sept.  
 v. v. Flowers white, double the size of the pre-  
 ceding.

*hyssopifolium.*

3. *E. foliis oppositis subverticillatis linearibus integerrimis pubescentibus trinerviis punctatis, radicalibus subdentatis.* *Willd. sp. pl.* 3. p. 1749.

Icon. *Di*  
 In dry pi  
 lina.  
 leaves  
 unless

4. *E. foliis*  
 bus pu  
 superio  
 fl. car.  
 In low sa  
 — Nov  
 dots.

5. *E. foliis*  
 ceolatis  
 briuscu  
 About ro  
 the A  
 About

6. *E. foliis*  
 basi tru  
*Willd.*  
 In shady  
 ♀. J  
 species

7. *E. foliis*  
 serratis  
 latis sc  
 In woods  
 Aug.—

8. *E. foliis*  
 basi pr  
 —*Wi*  
 In low c  
 nia.  
 ceding

9. *E. foliis*  
 basi g  
 pl. 3.  
*E. pilosu*  
*E. verbe*  
 Icon. *W*  
 In swar  
 ♀. A

Icon. *Dill. elth* t. 115. f. 140. *Pluk. alm.* t. 88. f. 2.

In dry pine-barrens and sandy fields: New Jersey to Carolina.  $\mathcal{U}$ . Aug.—Oct. *v. v.* About a foot high; leaves small: flowers white, as all the following are, unless a different colour is mentioned.

4. *E. foliis linearilanceolatis denticulatis obsolete 3-nervi linearifolium.*  
*basi pubescentibus, inferioribus oppositis verticillatis, superioribus alternis. Willd. sp. pl. 3. p. 1750. Walt. fl. car. 199.*

In low sandy fields: New Jersey to Carolina.  $\mathcal{U}$ . Aug.—Nov. *v. v.* The calyx is covered with resinous dots.

5. *E. foliis sessilibus amplexicaulibus distinctis ovato-lanceolatis basi rotundatis serratis glaberrimis, caule glabriusculo. Willd. sp. pl. 3. p. 1751.*

About rocks, particularly lime-stone, and throughout the Allegany mountains.  $\mathcal{U}$ . Aug. Sept. *v. v.* About two feet high; very smooth.

6. *E. foliis sessilibus amplexicaulibus distinctis lanceolatis basi truncatis serratis glabriusculis, caule pubescente. Willd. sp. pl. 3. p. 1751.*

In shady woods, about rocks: Pennsylvania to Virginia.  $\mathcal{U}$ . July—Oct. *v. v.* Resembles the preceding species.

7. *E. foliis subsessilibus oblongo-lanceolatis scabriusculis serratis, calycinis squamis interioribus elongatis lanceolatis scariosis coloratis. Willd. sp. pl. 3. p. 1752.*

In woods and swamps: Pennsylvania and Virginia.  $\mathcal{U}$ . Aug.—Oct. *v. v.* About eighteen inches high.

8. *E. foliis sessilibus distinctis oblongo-lanceolatis scabris basi profunde serratis, calycinis squamis concoloribus. Willd. sp. pl. 3. p. 1752.*

In low copses and dry swamps: Pennsylvania to Virginia.  $\mathcal{U}$ . Aug.—Nov. *v. v.* Resembles the preceding species.

9. *E. foliis sessilibus distinctis ovatis scabris, superioribus basi grosse serratis, summis integerrimis. Willd. sp. pl. 3. p. 1753.*

*E. pilosum. Walt. fl. car. 199.*

*E. verbenæfolium. Michx. fl. amer. 2. p. 98.*

Icon. *Willd. hort. berol. 32.*

In swamps and low woods: New England to Carolina.  $\mathcal{U}$ . Aug.—Nov. *v. v.* About two feet high.

- cuneifolium*. 10. *E. foliis petiolatis obovato-lanceolatis apice subserratis triplinerviis utrinque pubescentibus*. Willd. *sp. pl.* 3. p. 1753.  
*E. Marrubium*. Walt. *fl. car.* 199.  
 In low sandy fields: Virginia and Carolina.  $\mathcal{V}$ . Aug.—Oct. *v. v.* Not above a foot high.
- melissoides*. 11. *E. foliis petiolatis ovatis obtusiusculis obtuse serratis venosis glabriusculis*. Willd. *sp. pl.* 3. p. 1754.  
 In Pennsylvania.  $\mathcal{V}$ . Aug.—Oct. +. Resembles No. 9; but the leaves are smaller, petiolated, and smooth.
- rotundifolium*. 12. *E. foliis sessilibus distinctis subrotundo-cordatis obtuse serratis venosis, calycinis squamis acuminatis*.—Willd. *sp. pl.* 3. p. 1754.  
 Icon. *Pluk. alm. t.* 88. f. 4.  
 In swamps and shady woods: Canada to Carolina.  $\mathcal{V}$ . Aug.—Nov. *v. v.* About a foot or eighteen inches high.
- pubescens*. 13. *E. foliis sessilibus distinctis ovatis scabris venosis, inferioribus duplicato-serratis, superioribus subserratis, caule paniculato pubescente, ramis fastigiatis*. Willd. *sp. pl.* 3. p. 1755.  
*E. glandulosum*. Mich. *fl. amer.* 2. p. 98?  
 In dry sandy woods: New Jersey to Carolina.  $\mathcal{V}$ . Aug.—Oct. *v. v.* Not above two feet high.
- ceanothifolium*. 14. *E. foliis petiolatis ovatis acuminatis dentatis triplinerviis glabris*. Willd. *sp. pl.* 3. p. 1755.  
 In shady woods, about rocks: New York to Virginia.  $\mathcal{V}$ . Aug.—Nov. *v. v.* Resembles *Ceanothus americanus* in its foliage exceedingly.
- altissimum*. 15. *E. foliis subsessilibus lanceolatis 3-nerviis utrinque attenuatis pubescentibus, inferioribus medio serratis*. Willd. *sp. pl.* 3. p. 1754.  
 Icon. *Jacq. hort. vind.* 164.  
 In low sandy woods: Pennsylvania and Virginia, and on the banks of the Mississippi and Missouri.  $\mathcal{V}$ . Aug.—Oct. *v. v.* From three to seven feet high.
- amicum*. 16. *E. foliis brevi-petiolatis oppositis ternatisque lanceolato-oblongis utrinque acutis serratis glabriusculis subrugosis subtus reticulato-venosis, panicula corymboso-fasciculata confertiflora, calycinis squamis oblongis acutiusculis coloratis*.  
 On the New Jersey mountains.  $\mathcal{V}$ . Sept. Oct. *v. v.*

- About duncles collect purple
17. *E. foliis pnuatis s*  
 In swamp Virginia out bran
18. *E. glabell acuminis ex p. 99.*  
 On the ba  $\mathcal{V}$ . +
19. *E. foliis p ratis r Willd.*  
 Icon. *Roll s. 7. t.*  
 In swamp Canada tall; fl
20. *E. foliis p æqualit sulcato*  
 Icon. *Herf. 3.*  
 In swamp rolina. purple ers pur
21. *E. foliis serratis enum.*  
 F. macul In the Bl  $\mathcal{V}$ . Au flowers
22. *E. foliis basi cu solido*

About two feet high ; stem solid, smooth, purple ; peduncles tomentose ; flowers small, but very closely collected in a corymbose panicle, of a beautiful pale purple inclining to flesh colour.

17. *E. foliis petiolatis ternis quaternisve ovatis utrinque attenuatis serratis scabriusculis.* *Willd. sp. pl. 3. p. 1756.* *trifoliatum.*  
In swamps and on the banks of rivers : New York to Virginia. 24. Aug.—Oct. v. v. A tall plant without branches.

18. *E. glabellum ; foliis quaternis ovali-lanceolatis utrinque acuminatis subfalcatis rariter serratis, squamis calycinis extimis brevibus ovalibus.*—*Mich. fl. amer. 2. p. 99.* *falcatum.*  
On the banks of the Ohio and Scioto rivers. *Michaux.*

24. +. A tall plant, resembling *E. album*.

\*\* *Calycibus plus quam 5-floris.*

19. *E. foliis petiolatis quaternis quinisve ovato-lanceolatis serratis rugoso-venosis scabriusculis, caule fistuloso.* *Willd. sp. pl. 3. p. 1759.* *purpureum.*  
Icon. *Rob. ic. 217. Corn. canad. t. 72. Moris. hist. 3. s. 7. t. 13. f. 4. Dod. mem. t. 217.*

In swamps, wet woods, and on the banks of rivulets : Canada to Virginia. 24. Aug.—Oct. v. v. Very tall ; flowers purple.

20. *E. foliis petiolatis quaternis quinisve ovato-lanceolatis inæqualiter serratis subtus pubescentibus, caule solido sulcato.* *Willd. sp. pl. 3. p. 1760.* *maculatum.*  
Icon. *Herm. parad. t. 158. Moris. hist. 3. s. 7. t. 18. f. 3.*

In swamps and near ponds and rivulets : Canada to Carolina. 24. Aug.—Oct. v. v. Stem marked with purple lines, not so tall as the preceding species ; flowers purple.

21. *E. foliis petiolatis quaternis quinisve ovatis acuminatis serratis utrinque scabris, caule solido tereti.* *Willd. enum. 853.* *punctatum.*  
*E. maculatum. Hortul.*

In the Blue-mountains : New Jersey and Pennsylvania. 24. Aug.—Oct. v. v. Not so tall as the preceding ; flowers purple, very ornamental.

22. *E. foliis petiolatis ternis quaternisve ovato-lanceolatis, basi cuneatis inæqualiter serratis glabriusculis, caule solido lævi.* *Willd. sp. pl. 3. p. 1760.* *verticillatum.*

On the banks of rivers and in swamps; frequent: New York to Carolina. *v. v.* From four to six feet high; flowers purple. It differs from No. 18 in its stem, broader and smoother leaves, and white calyces; from No. 19 in its stem and smooth leaves.

- perfoliatum.* 23. *E. foliis connato-perfoliatis oblongis sursum angustatis serratis rugosis subtus tomentosis, caule villosa.* Willd. *sp. pl.* 3. p. 1761.

*E. connatum.* Mich. *fl. amer.* 2. p. 99.

Icon. *Pluk. alm.* t. 87. f. 6.

In low meadows and about springs: Canada to Florida.

*℥.* Aug.—Oct. *v. v.* From two to three feet high; flowers white. The whole plant is exceedingly bitter, and has been used for ages past by the natives and inhabitants in intermitting fevers. It is generally known by the name of *Thorough-wort* or *Bone-set*. I have stated a case of its efficacy in those diseases in a letter to William Royston, Esq. who inserted it in the Medical and Physical Journal. In which I stated the benefits derived from this plant, by myself and others during my stay in the neighbourhood of lake Ontario, when both the influenza and lake fever (similar to the yellow fever) were raging among the inhabitants. It is generally used as a decoction, or, which I consider the more effectual way, as an infusion in gin or rum.

- cœlestinum.* 24. *E. foliis petiolatis cordato-ovatis obtusiusculis triplinerviis obtuse serratis, floribus corymboosis.* Willd. *sp. pl.* 3. p. 1764.

Icon. *Dill. elth.* t. 114. f. 159.

In mountain-woods of Virginia to Carolina. *℥.* Aug.—Oct. *v. v.* Flowers large, beautiful blue.

- aromaticum.* 25. *E. foliis petiolatis ovatis acutis trinerviis obtuse-serratis glabris, caule superne paniculato, floribus corymbosis, calycibus simplicibus.* Willd. *sp. pl.* 3. p. 1765.

Icon. *Pluk. alm.* t. 88. f. 3.

In woods and on the banks of rivers: Pennsylvania to Florida. *℥.* Aug.—Oct. *v. v.* Flowers large, clear white, sweet-scented.

- ageratoides.* 26. *E. foliis petiolatis ovatis acuminatis trinerviis inæqualiter grosse serratis glabris, corymbo multifloro divaricato, calycibus subsimplicibus.* Willd. *sp. pl.* 3. p. 1765.

*E. urticæfolium.* Mich. *fl. amer.* 2. p. 100.

*Ageratum altissimum.* Sp. *pl. ed.* 2. p. 1176.

Icon. *Moris. hist.* 3. s. 7. t. 18. f. 11.

The most  
and ne  
*℥.* Aug.  
white.

27. *E. foliis l  
serratis,  
pulverul  
On the s  
Michau.*

613. M

1. *M. caule r  
tatis acu  
corymb  
Eupatorium  
Icon. Jac  
On the bar  
*℥.* Jul  
very nu  
is anoth  
loured f  
hand to*

614.

1. *C. foliis r  
ribus ra  
sito fast  
*℥.* amer  
In low gr  
rolina.  
appeara  
corymb  
even th*  
2. *C. glabra  
floribus  
glabris.  
C. biflora  
in Hert  
On high  
*℥.* Oct  
high;  
3. *C. calyci**

The most common species in the Allegany mountains, and near the sea-coast from Canada to Pennsylvania. *℥. Aug.—Oct. v. v.* About two feet high; flowers white.

27. *E. foliis longe-petiolatis subdeltoideo-lanceolatis rariter serratis, calycinis squamis tomentosis obtusis, caule pulverulento.*—*Mich. fl. amer. 2. p. 100.*

On the sea-coast of Carolina, among *Scirpus*, &c. *Michaux. ℥. Sept.—Nov. +.* Flowers white.

613. MIKANIA. *Willd. sp. pl. 3. p. 1742.*

1. *M. caule scandente glabro, foliis cordatis repando-dentatis acuminatis lobis divaricatis inæqualibus, floribus corymbosis.* *Willd. sp. pl. 3. p. 1743.*

*Eupatorium scandens. Sp. pl. 1171.*

Icon. *Jacq. ic. rar. 1. t. 169. Pluk. alm. t. 163. f. 3.*

On the banks of rivers and ditches: Canada to Carolina. *℥. July—Sept. v. v.* A twining plant; flowers very numerous, white with a tinge of blue. There is another species, found in Carolina, with flesh-coloured fragrant flowers, but I have no materials at hand to give its description.

614. CHRYSOCOMA. *Gen. pl. 1019.*

1. *C. foliis radicalibus spatulato-lanceolatis, caulinis linearibus rariter sparsis, caule subnudo, corymbo composito fastigiato, calycibus oblongis 3—4-floris.* *Mich. fl. amer. 2. p. 101.*

■ low grounds, in the forests of North and South Carolina. *℥. Aug.—Oct. v. v.* A plant of singular appearance, the stem almost leafless; the large flat corymbus consists of small flowers, entirely yellow; even the calyx is deeply coloured.

2. *C. glabra; foliis linearibus 3-nerviis punctato-scrabis, floribus corymbosis congestis, calycibus laxis 5-floris glabris.*—*Lam. encycl. 2. p. 192.*

*C. biflora. Sp. pl. 1178. secundum specimen Pallasianum in Herbario Lambertiano asservatum.*

On high cliffs on the banks of the Missouri. *M. Lewis. ℥. Oct. v. s. in Herb. Lewis.* From one to two feet high; flowers large, yellow.

3. *C. calycibus pedunculis folisque sublanato-pubescenti-*

*serotinum.*

*scandens.*

*nudata.*

*dracunculoides.*

*causeosa.*

bus; foliis angustissime linearibus, corymbo laxiusculo, calycibus laxis 5-floris: squamis interioribus divaricatis glabris.—*Pallas. mss. in Herb. Lambert*.  
On the banks of the Missouri. *M. Lewis*.  $\mathcal{U}$ . Oct. v. s. in *Herb. Lewis*. Flowers yellow, somewhat smaller than the preceding.

615. *CACALIA*. *Gen. pl.* 1275.

- suaveolens*. 1. *C.* caule herbaceo, foliis petiolatis hastato-sagittatis serratis glabris concoloribus, floribus corymbosis erectis, calycibus multifloris.—*Willd. sp. pl.* 3. p. 1734.  
On the banks of rivers: Pennsylvania to Carolina.  $\mathcal{U}$ . Aug.—Oct. v. v. From three to four feet high; flowers white; anthers yellow.
- atriplicifolia*. 2. *C.* caule herbaceo, foliis petiolatis glabris subtus glaucis, radicalibus cordatis dentatis, caulinis rhombeis utrinque subbidentatis, floribus corymbosis erectis, calycibus 5-floris.—*Willd. sp. pl.* 3. p. 1734.  
*Icon. Pluk. alm. t.* 101. *f.* 1. *Moris. hist.* 3. s. 7. t. 15. *f.* 7.  
In low and overflowed places, near rivers: Canada to Carolina.  $\mathcal{U}$ . Aug.—Oct. v. v. Flowers white, considerably smaller than the preceding.
- reniformis*. 3. *C.* caule herbaceo, foliis petiolatis glabris subtus ad venas pilosis, radicalibus amplis cordatis reniformibus repando-dentatis, caulinis oblongis dentatis basi cuneatis integerrimis, corymbis fastigiatis, calycibus multifloris. *Willd. sp. pl.* 3. p. 1735.  
On the banks of rivers: Pennsylvania to Virginia.  $\mathcal{U}$ . Aug.—Oct. v. v. From five to ten feet high; flowers white.

616. *SPARGANOPHORUS*. *Gært. carb.* 2. p. 395.

- verticillatus*. 1. *S.* foliis setaceo-linearibus verticillatis, caule subunifloro, pappo campanulato 5-dentato.—*Mich. fl. amer.* 2. p. 95.  
*Ethulia uniflora*. *Walt. fl. car.* 195. *Willd. sp. pl.* 3. p. 1742.  
*Icon. Mich. fl. amer.* 2. t. 42.  
In overflowed swamps and rivulets: New Jersey, Carolina, and Florida.  $\mathcal{U}$ . Aug.—Oct. v. v. Floating in the water; flowers purple, the size of a large daisy.

617. *HYM*

1. *H.* candi  
laciniis  
so-pan  
Rothia c  
In Carol  
tris sc

618. *MEL*

1. *M.* foliis  
ter de  
tato-tr  
leis re  
mer. 2  
Bidens n  
Athanas  
a. *M.* foliis  
*Icon. D*  
 $\beta$ . *M.* foliis  
*Icon. D*  
On the l  
—Oct

61  
Trat  
Pers

1. *M.* caul  
longo  
thulat  
Persoon  
Athanas  
In the C  
Flow  
all th  
2. *M.* caul  
triner  
tis, p  
Persoon

VOL. II.

617. HYMENOPAPPUS. *L'Herit. monog. Mich. fl. amer. 2. p. 103.*

Rothia. *Lam. illustr. t. 667.*

1. *H. candicanti-lanuginosus*; foliis profunde pinnatifidis, laciniis lineari-oblongis subdentatis, floribus corymbo-so-paniculatis.—*Mich. fl. amer. 2. p. 104.* *scabiosæus.*  
*Rothia caroliniensis. Journ. de hist. nat. no. 1. cum icone.*  
 In Carolina. ☉. +. Flowers white, the size of *Liatris scariosa*.

618. MELANANTHERA. *Mich. fl. amer. 2. p. 106.*

1. *M. foliis triplinerviis ovatis acuminatis scabris inæqualiter dentatis, inferioribus subcordatis, superioribus hastato-trilobis, pedunculis terminalibus corymbosis, paleis receptaculi lanceolatis acuminatis.*—*Mich. fl. amer. 2. p. 107.* *hastata.*  
*Bidens nivea. Willd. sp. pl. 3. p. 1721.*  
*Athanasia hastata. Walt. fl. car. 201.*  
*α. M. foliis profunde trilobatis.* *lobata.*  
*Icon. Dill. elth. t. 47. f. 55.*  
*β. M. foliis leviter lobatis panduræformibus.* *pandurata.*  
*Icon. Dill. elth. t. 46. f. 54.*  
 On the banks of rivers: Carolina to Florida. ♀. Aug.  
 —Oct. v. v. Flowers large, white.

619. MARSHALLIA. *Gen. pl. ....*

*Trattenickia. Pers. syn. 2. p. 403.*

*Persoonia. Mich. fl. amer. 2. p. 104.*

1. *M. caule simplici inferne folioso superne nudato, foliis longo-lanceolatis, calycinis foliolis obtusis, paleis spatulatis.* *lanceolata.*  
*Persoonia lanceolata. Mich. fl. amer. 2. p. 105.*  
*Athanasia obovata. Walt. fl. car. 201.*  
 In the Carolina mountains. ♀. v. s. in *Herb. Walter.*  
 Flowers resembling a *Scabious*, pale purple, and like all the following very ornamental.  
 2. *M. caule simplici, foliis lanceolato-ovalibus acuminatis trinerviis, infimis vaginantibus, calycinis foliolis acutis, paleis angusto-linearibus.* *latifolia.*  
*Persoonia latifolia. Mich. fl. amer. 2. p. 105. t. 43.*

*Athanasia trinervia*, *Walt. fl. car.* 201.

In the Carolina mountains. *W. v. s. in Herb. Walter.*

*angustifolia*.

3. *M. caule ramoso, foliis infimis angusto-lanceolatis, ramis angustissime linearibus, calycinis foliolis rigidis superne angustatis acutissimis, paleis setaceis.*

*Persoonia angustifolia. Mich. fl. amer.* 2. p. 106.

*Athanasia graminifolia. Walt. fl. car.* 200.

In Tennessee. *Michoux.* In swamps, near Wilmington, North Carolina. *Ph. W.* June, July. *v. v.*

The handsomest species of this genus.

## 620. SANTOLINA. *Gen. pl.* 1278.

*succulenta*.

1. *S. glabra; caule corymboso-ramoso, foliis subbipinnatifidis, laciniis acutis linearibus, pedunculis terminalibus unifloris.*

On the banks of the Kooskoosky. *M. Lewis. O.* June—Aug. *v. v.; v. s. in Herb. Lewis.* A small plant of an agreeable sweet scent; flowers yellow.

*Planta glabra. Caulis erectus, ramosus: rami corymbosi uniflori. Folia sessilia tenuissime pinnatifida, laciniis inciso-2-3-fidis, omnibus acutis angusto-linearibus. Pedunculi terminales, solitarii, uniflori. Calyx hemisphaericus, subimbricato-polyphyllus: foliolis ovalibus, obtusis, glabris, viridibus, margine albido-membraceis, laceris. Cor. discoidea. Discus globosus, luteus. Corollulae germinibus oblique insertae, tubulosae, 4-fidae? laciniis erectis. Genitalia inclusa. Receptaculum conicum, paleaceum. Paleis sparsis, oblongis, obtusis. Pappus nullus. Semina oblique obovata.*

## II. SUPERFLUA.

### 621. ARTEMISIA. *Gen. pl.* 1281.

\* *Foliis simplicibus.*

*integrifolia*.

1. *A. cano-tomentosa; caule erecto virgato; foliis linearilanceolatis acuminatis subtus tomentosis subdentatis, floribus ovatis subsessilibus erectis tomentosis.—Willd. sp. pl.* 3. p. 1846.

Icon. G.  
On the

*Lewis*  
feet h

2. *A. glabra*  
florib  
pl. 3.

Icon. G.  
On the  
in He

3. *A. canes*  
vosius  
3-lobis  
ribus.

On the  
in He

4. *A. canes*  
trilobis  
sis ped

Icon. G.  
t. 353.

On the  
*Lambe*

5. *A. foliis*  
sis, sp  
floris.

Icon. G.  
On the  
Oct.

6. *A. foliis*  
natis,  
moso  
pl. 3.

Icon. E.  
On the  
Nov.

7. *A. foliis*  
acutis,  
dente,  
p. 183

Icon. *Gmel. fl. sib. 2. t. 48. f. 1 & 2.*

On the cliffs and dry savannahs of the Missouri. *M. Lewis. 2. Oct. v. s. in Herb. Lewis.* About three feet high.

2. *A. glabra*; foliis lineari-lanceolatis utrinque attenuatis, *Dracunculus*. floribus subrotundis pedunculatis erectis.—*Willd. sp. pl. 3. p. 1848.*

Icon. *Gmel. fl. sib. 2. t. 59 & 60. f. 1.*

On the Missouri. *M. Lewis. 2. Aug.—Oct. v. s. in Herb. Lewis.*

3. *A. canescens*; foliis longe lineari-lanceolatis acutis nervosis utrinque canis: inferioribus cuneiformibus acute-3-lobis, floribus ovalibus glomeratis sessilibus axillaribus.

On the Missouri. *M. Lewis. 2. Sept.—Nov. v. s. in Herb. Lewis.*

4. *A. canescens*; foliis inferioribus cuneiformibus obtusis trilobis, superioribus linearibus obtusis, floribus globosis pedunculatis cernuis. *Willd. sp. pl. 3. p. 1848.*

Icon. *Gmel. fl. sib. 2. t. 61. f. 1 & 2. Pluk. amalth. t. 353. f. 5.*

On the north-west coast. *2. Sept. Oct. v. s. in Herb. Lambert.* Flowers large.

**\*\* Foliis compositis; caule paniculato.**

5. *A. foliis caulinis pinnatis linearibus glabris, ramis indivisis, spicis secundis reflexis, floribus subsessilibus 5-floris.* *Willd. sp. pl. 3. p. 1826.*

Icon. *Gmel. fl. sib. 2. t. 51. Lob. ic. 756.*

On the plains of the Missouri. *M. Lewis. 2. Sept. Oct. v. s. in Herb. Lewis.*

6. *A. foliis caulinis setaceis pinnatis glabris, radicalibus pinnatis, laciniis 3-fidis incanis, caule procumbente ramoso virgato, floribus ovatis pedunculatis.* *Willd. sp. pl. 3. p. 1827.*

Icon. *Engl. bot. 338.*

On the plains of the Missouri. *M. Lewis. 2. Sept.—Nov. v. s. in Herb. Lewis.*

7. *A. foliis incanis pinnatis, pinnis tripartitis linearibus acutis, floralibus pinnatis 3-partitisve, caule adscendente, floribus globosis nutantibus.* *Willd. sp. pl. 3. p. 1838.*

- On the plains of the Missouri. *M. Lewis*. 24. Oct. Nov. *v. s. in Herb. Lewis.*
- biennis*. 8. *A. foliis glabris, radicalibus tripartito-pinnatis, caulinis inferioribus pinnatifidis, superioribus indivisis linearibus, caule stricto, floribus subrotundis subsessilibus erectis. Willd. sp. pl. 3. p. 1842.*  
*A. hispanica. Jacq. ic. rar. 1. t. 172.*  
 On the banks of the Missouri. *J. v. s. in Herb. Lambert.*
- vulgaris*. 9. *A. foliis subtus tomentosis, caulinis pinnatifidis, laciniis lanceolatis subdentatis acutis, floralibus indivisis linearibus lanceolatis, floribus subsessilibus oblongis erectis, calycibus tomentosis. Willd. sp. pl. 3. p. 1845.*  
*Icon. Engl. bot. 978.*  
 On the banks of rivers: Canada to New England. *Y. Sept.—Nov. v. v.*
- canadensis*. 10. *A. subdecumbens, parce pubescens; foliis planis linearipinnatifidis, ramulis spicifloris, floribus subhemisphaericis, calycibus scariosis. Mich. fl. amer. 1. p. 129.*  
 In the moveable sands about Hudson's Bay. *Michaux. +. Receptacle smooth.*
- caudata*. 11. *A. erecta, glabra; foliis subsetaceo-pinnatifidis, laciniis convexis, ramulis confertis, racemis terminalibus longissimis strictis, floribus pedicellatis globoso-ovatis. Mich. fl. amer. 2. p. 129.*  
 On the gravelly banks of the Missouri. *Michaux. +.*
- \*\*\* *Foliis compositis; caule simplicissimo.*
- spithamea*. 12. *A. pumila, sericeo-pubescens; foliis inferioribus linearibus superne pinnatifidis, laciniis paucis linearibus acutis, floralibus simplicibus, floribus racemosis brevipedunculatis hemisphaericis, calycibus scariosis.*  
 In Labrador. *Colmaster. Y. Sept. Oct. v. s. in Herb. Dickson.* Flower large, in proportion to the size of the plant; receptacle naked.

622. TANACETUM. *Gen. pl. 1280.*

- vulgare*. 1. *T. foliis bipinnatis incisiss serratis. Willd. sp. pl. 3. p. 1814.*  
*Icon. Oed. dan. 871.*

In cultiva  
to Per  
Tansy

1. B. glabe  
linearib  
calycib  
p. 125  
On the se  
the Mi  
v. s. in  
lowing

2. B. foliis  
glomer  
mis ca  
p. 125  
In woods  
Aug.—

3. B. foliis  
posita f  
p. 1915  
*Icon. Sch  
t. 27. f.  
On the  
Nov.  
white p*

1. C. herbac  
acutis s  
termina  
squami  
*Mich. J  
Erigeron  
Icon. Di  
In overfl  
to Card  
high;  
a stron  
2. C. herbac  
latis a*

In cultivated grounds and on road sides : New England to Pennsylvania.  $\mathcal{U}$ . July—Sept.  $v. v.$  Common  
*Tansy* is probably introduced from Europe.

## 623. BACCHARIS. Gen. pl. 1285.

1. B. glaberrima, paniculato-ramosissima; foliis angustolinearibus integerrimis, panicula composita multiflora, calycibus parvulis sub-20-floris.—*Mich. fl. amer.* 2. p. 125. *angustifolia*

On the sea-coast : Carolina to Florida; on the banks of the Mississippi. *M. Lewis.*  $\mathcal{h}$ . July—Sept.  $v. v.$ ; *v. s. in Herb. Lewis.* Flowers white, as all the following are.

2. B. foliis laevibus cuneato-obovalibus superne dentatis, glomerulis florum axillaribus sessilibus remotis, squamis calycinis superne runs.—*Mich. fl. amer.* 2. p. 125. *glomeruliflora*

In woods, on the coast of Virginia and Carolina.  $\mathcal{h}$ . Aug.—Oct.  $v. v.$  Resembles the following.

3. B. foliis obovatis superne inciso-dentatis, panicula composita foliosa, fasciculis pedunculatis.—*Willd. sp. pl.* 3. p. 1915. *halimifolia*

Icon. *Schmidt arb.* 82. *Herm. parad.* 225. *Pluk. alm.* t. 27. f. 2.

On the sea-coast : Maryland to Florida.  $\mathcal{h}$ . Sept.—Nov.  $v. v.$  The whole shrub is covered with a white powder.

## 624. CONYZA. Gen. pl. 1286.

1. C. herbacea, pubescens; foliis sessilibus lato-lanceolatis acutis serratis : serraturis apice cartilagineis, corymbis terminalibus fastigiatis coarctatis subaphyllis, calycinis squamis subulato-mucronatis flosculis brevioribus.—*Mich. fl. amer.* 2. p. 126. *exclus. syn. Walteri.* *marylandica*

*Erigeron camphoratum. Willd. sp. pl.* 3. p. 1960.  
 Icon. *Dill. elth. t.* 88. f. 104.

In overflowed places, near rivers and ponds : New York to Carolina.  $\odot$ . Aug.—Oct.  $v. v.$  About a foot high; flowers reddish-purple; the whole plant emits a strong scent of camphor, only more disagreeable.

2. C. herbacea, subpubescens; foliis petiolatis ovato-lanceolatis acutissimis subrepando-denticulatis : denticulis *camphorata*

glandulosi, corymbis terminalibus et axillaribus folio brevioribus, calycinis squamis acutis flosculos subaequantibus.

*Baccharis foetida*. Willd. *sp. pl.* 3. p. 1918. Walt. *fl. car.* 202.

Icon. *Dill. elth.* t. 89. f. 105.

On the banks of rivers and in large swamps: South Carolina and Georgia.  $\mathcal{U}$ . Aug. Sept. *v. v.* Flowers purple, smaller than the preceding; stem about three feet high.

*bifrons*.

3. *C. herbacea, subglutinosa*; foliis amplexicaulibus spatulato-oblongis acutis serratis, paniculae corymbulis capitato-glomeratis.—Willd. *sp. pl.* 3. p. 1920.

*C. amplexicaulis*. Mich. *fl. amer.* 2. p. 126.

*C. uliginosa*. Pers. *syn.* 2. p. 427.

*Baccharis viscosa*. Walt. *fl. car.* 202.

Icon. *Pluk. alm.* t. 87. f. 4.

In low and overflowed fields: Carolina.  $\mathcal{U}$ . July, Aug. *v. s.* in *Herb. Gronov.* Flowers pale yellow.

*pycnostachya*.

4. *C. caule alato, foliis lanceolatis subtus tomentosis subintegerrimis, spica cylindrica densiflora*.—Mich. *fl. amer.* 2. p. 126.

*C. spicata*. Cav. *ic.* 1. p. 8. t. 12?

*Gnaphalium undulatum*. Walt. *fl. car.* 203.

In dry fields and barren woods: Carolina to Florida.  $\mathcal{U}$ . July—Sept. *v. v.* A singular-looking species, nearly allied to *C. virgata*.

#### 625. GNAPHALIUM. Gen. pl. 1282.

*margaritaceum*.

1. *G. herbaceum*; foliis lineari-lanceolatis sensim angustatis acutis, caule superne ramoso, corymbo fastigiato, floribus pedicellatis.—Willd. *sp. pl.* 3. p. 1881.

Icon. *Engl. bot.* 2018.

In Canada and on the mountains of New York and New Jersey.  $\mathcal{U}$ . Aug.—Oct. *v. v.* About eighteen inches high; flowers large, white, with a yellow disk, very handsome.

*polycephalum*.

2. *G. herbaceum, erectum*; foliis lineari-lanceolatis acutis, supra glabris, subtus pubescentibus, caule paniculato tomentoso, corymbis terminalibus coarctatis.—Mich. *fl. amer.* 2. p. 127.

*G. obtusifolium*.

*Dillenium*.

In old fields.

July—Sept.

flowers

3. *G. herbaceum*.

toxis, c

glomeratis.

p. 1884.

Icon. *Dill.*

In sandy fields.

—Oct.

calycis

4. *G. sarmentosum*.

radicalibus

arctatis.

elongatis.

p. 1882.

Icon. *Pluk.*

In woods.

in the

Not abundant.

plaintive.

5. *G. caule*.

lanceolatis.

calycinis

naccis.

Icon. *Fl.*

In Labrador.

Not abundant.

6. *G. caule*.

lanceolatis.

minutis.

pl. 3.

Icon. *Fl.*

In stony fields.

*v. v.* A

colour

7. *G. caule*.

iatis su

minutis.

p. 188

*G. obtusifolium*. Willd. sp. pl. 3. p. 1880. excl. syn. *Dillenii*.

In old fields and woods: New England to Carolina. ☉. July—Sept. v. v. About a foot high, spreading; flowers yellowish-white, not shining.

3. *G. herbaceum*; foliis lineari-spathulatis subtus tomentosis, caule erecto simplicissimo, floribus sessilibus glomeratis terminalibus et axillaribus.—Willd. sp. pl. 3. p. 1884. *purpureum*.

Icon. Dill. elth. t. 109. f. 132.

In sandy barren soil: New York to Carolina. ☿. July—Oct. v. v. Not above a span high; small, calyces purple.

4. *G. sarmentis procumbentibus*, caule simplicissimo, radicalibus ovatis nervosis mucronatis, corymbis coarctato, floribus dioicis, squamis calycinis interioribus elongatis acutiusculis coloratis.—Willd. sp. pl. 3. p. 1882. *plantagineum*.

Icon. Pluk. alm. t. 348. f. 9.

In woods and on sunny hills: Canada to Carolina, and in the Allegany mountains. ☿. May—July v. v. Not above six inches high; leaves large, resembling plantain leaves; flowers white.

5. *G. caule non sarmentoso simplicissimo*, foliis radicalibus lanceolatis, floribus terminalibus aggregatis sessilibus, calycinis squamis interioribus elongatis acutis membranaceis. Willd. sp. pl. 3. p. 1883. *alpinum*.

Icon. Fl. dan. 332.

In Labrador. Colmaster. ☿. v. s. in Herb. Dickson. Not above four inches high; resembling *G. dioicum*.

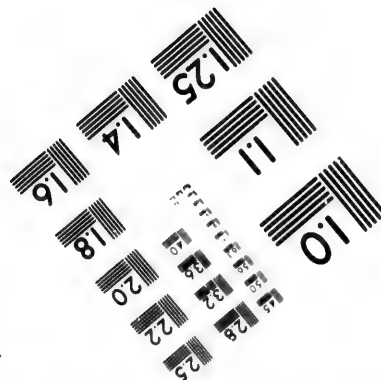
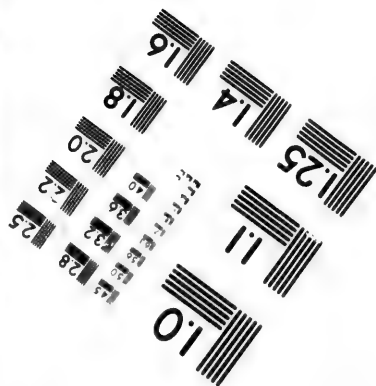
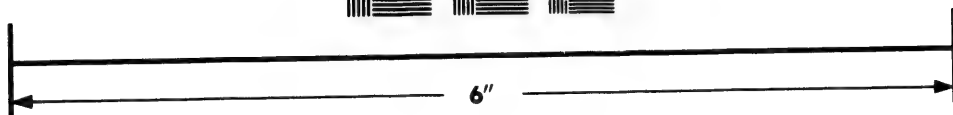
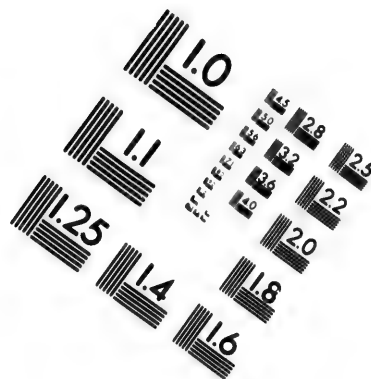
6. *G. caule herbaceo simplicissimo erecto*, foliis angustolanceolatis utrinque attenuatis et lanatis, floribus terminalibus axillaribusque sessilibus spicatis. Willd. sp. pl. 3. p. 1884. *sylvaticum*.

Icon. Fl. dan. 254.

In stony woods: New York and Canada. ☿. July, Aug. v. v. About a foot or less high; calyces shining, straw-coloured with brown.

7. *G. caule herbaceo erecto ramoso*, foliis obovato-spathulatis subtus pubescentibus, floribus axillaribus et terminalibus glomeratis spicatis. Willd. sp. pl. 3. p. 1887. *americanum*.





# Photographic Sciences Corporation

23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503

18 20 22 25 28 32 36 40 45 50 55 60 65 70 75 80 85 90 95 100

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

*G. spathulatum*. *Lam. encycl.* 2. p. 728.

In dry, sunny, and rocky situations: Pennsylvania to Virginia. ☉. July—Sept. *v. v.* About a span high; flowers small, pale straw-coloured.

*uliginosum*.

8. *G. caule herbaceo ramoso diffuso lanato, foliis lineari-lanceolatis utrinque angustatis tomentosis, floribus terminalibus congestis.* *Willd. sp. pl.* 3. p. 1891.

Icon. *Fl. dan.* 859.

In exsiccated pools: Canada to Virginia. ☉. Aug. Sept. *v. v.* About a span high; flowers small, calyces brown.

*germanicum*

9. *G. herbaceum, caule erecto dichotomo, foliis lineari-lanceolatis acutis tomentosis, floribus globoso-capitatis alaribus terminalibusque.* *Willd. sp. pl.* 3. p. 1894.

*Filago germanica.* *Sp. pl.* 1311.

Icon. *Fl. dan.* 997. *Engl. bot.* 946.

In dry fields and pastures: Pennsylvania to Virginia. ☉. July, Aug. *v. v.* About a span high: calyces straw-coloured.

#### 626. BELLIS. *Gen. pl.* 1300.

*integrifolia*.

1. *B. caulescens, divaricato-ramosa; foliis integerrimis, inferioribus obovatis, supremis lanceolatis, calycinis foliolis acutissimis pilo acuminatis.*—*Mich. fl. amer.* 2. p. 131.

On banks of rivers and on shady hills in Tennessee. *Michaux.* +.

#### 627. CHRYSANTHEMUM. *Gen. pl.* 1307.

*Leucanthemum*.

1. *C. foliis amplexicaulibus lanceolatis serratis, basi incisodentatis, caule erecto ramoso.* *Willd. sp. pl.* 3. p. 2142.

Icon. *Fl. dan.* 994. *Engl. bot.* 601.

In meadows and fields: common every where, and probably introduced from Europe. ♀. June, July. *v. v.*

A very troublesome weed; flowers large, white, resembling a daisy.

*arctium*,

2. *C. foliis radicalibus tripartitis incisodentatis, caulibus cuneiformibus 3-partitis obtusis.* *Willd. sp. pl.* 3. p. 2146.

Icon. *Gmel. fl. sib.* 2. t. 84.

On the  
About  
of the

628.

1. *P. foliis*  
bus i  
p. 21  
Chrysa  
Icon.  
f. 11  
In Nor  
bert.  
Leuc

1. *A. foliis*  
bus p  
oblon  
p. 21  
Icon.  
f. 1  
In Lab  
Dick  
yellow

2. *A. glab*  
nervi  
tiolu  
bus,  
In Lab  
Dick  
prec

3. *A. pub*  
basi  
renu  
On the  
or n  
rally  
prec

4. *A. hir*  
go-c  
ped

On the north-west coast. *¶. v. s. in Herb. Lambert.*  
About a foot high; flowers purplish-white, the size  
of the preceding species.

628. *PYRETHRUM*. *Smith fl. brit. 2. p. 900.*

1. *P. foliis lanceolatis, inferioribus apice serratis, superioribus integerrimis, ramis corymbosis. Willd. sp. pl. 3. p. 2151.*

*serotinum.*

*Chrysanthemum serotinum. Sp. pl. 1251.*

Icon. *Pluk. alm. t. 17. f. 2. Moris. hist. 3. s. 6. t. 9. f. 11.*

In North America. *¶. Oct. Nov. v. s. in Herb. Lambert.* Flowers white, smaller than *Chrysanthemum Leucanthemum*.

629. *ARNICA*. *Gen. pl. 1296.*

1. *A. foliis remote dentatis subtus lanato-hirsutis, radicalibus petiolatis oblongis basi angustatis, caulinis alternis oblongo-lanceolatis, caule unifloro.—Willd. sp. pl. 3. p. 2108.*

*Doronicum.*

Icon. *Jacq. fl. austr. 1. t. 92. Allion. fl. ped. t. 17. f. 1 & 2.*

In Labrador. *Colmaster. ¶. July, Aug. v. s. in Herb. Dickson.* Not above a span high; flowers large, yellow.

2. *A. glabra; foliis integerrimis utrinque glabris acutis trinervibus, radicalibus spathulato-lanceolatis basi in petiolum angustatis, caulinis oppositis lanceolatis sessilibus, caule unifloro.*

*plantaginea.*

In Labrador. *Colmaster. ¶. July, Aug. v. s. in Herb. Dickson.* About a span high; flower the size of the preceding, yellow, the rays broad and 3-dentated.

3. *A. pubescens; foliis radicalibus lanceolatis obtusiusculis basi attenuatis petiolatis trinervibus, caulinis oppositis remotis linearibus, caule unifloro.*

*fulgens.*

On the banks of the Missouri. *¶. v. s.* About a foot or more high, very slender; leaves on the stem generally two pairs; flowers somewhat smaller than the preceding, of a very deep and beautiful yellow.

4. *A. hirsuta; foliis radicalibus decussatim oppositis oblongo-ovatis subdentatis, caule subaphyllo summitate in pedunculos 1-floros diviso.*

*Claytoni.*

*Doronicum nudicaule. Mich. fl. amer. 2. p. 121.*

*Doronicum acaule. Walt. fl. car. 205.*

*Doronicum foliis Plantaginis, &c. Clayt. fl. virg. no. 37.*  
In shady woods: Virginia to Florida. *U.* July, Aug.  
*v. s. in Herb. Gronov. nec non Walter.* About two  
feet high; flowers large, of a fine yellow.

*maritima.*

5. *A. foliis lanceolatis, inferioribus serratis, caule folioso multifloro. Willd. sp. pl. 3. p. 2110.*

On the north-west coast. *U. v. s. in Herb. Banks.*  
Flowers large, very handsome.

### 630. CINERARIA. Gen. pl. 1294.

*integrifolia.*  
*β. minor.*

1. *C. lanato-tomentosa; caule simplici, foliis inferioribus spathulatis subdentatis, superioribus angusto-lanceolatis integerrimis erectis, floribus subumbellatis.—Willd. sp. pl. 3. p. 2082.*

*Senecio tomentosus. Mich. fl. amer. 2. p. 119.*

On the banks of the Missouri. *M. Lewis.* In Carolina near Flat-rock. *Michaux. U.* Aug. Sept. *v. s. in Herb. Lewis.* About a foot high; flowers the size of *Senecio Jacobæa*, yellow; the rays very short.

*heterophylla.*

2. *C. lanato-tomentosa; foliis radicalibus longe petiolatis spathulato-obovatis, ovatis acutiusculis pinnatifidisque, caulinis 2-3-linearibus pinnatifidis, floribus corymbosis.*

On dry sunny rocks, in the Blue-mountains: Pennsylvania. *U.* May, June. *v. v.* About a span high; flowers deep yellow, the size of the preceding.

*canadensis.*

3. *C. villosa; foliis pinnatifidis subvillosis, laciniis sinuatis, floribus paniculatis.—W. sp. pl. 3. p. 2085.*

In Canada. *Kalm. U.* Resembles *C. maritima*, but is not tomentose.

### 631. SENECIO. Gen. pl. 1290.

\* *Floribus flosculosis: radiis nullis.*

*vulgaris.*

1. *S. foliis amplexicaulibus pinnatifidis dentatis, floribus corymbosc-coarctatis.—Willd. sp. pl. 3. p. 1979.*

Icon. *Fl. dan. 513. Engl. bot. 747.*

In cultivated grounds as a weed; about Philadelphia and some other places in Pennsylvania; introduced from Europe. *©.* April—Oct. *v. v.* Flowers, as all the following, yellow.

2. *S. caul...*  
longi  
calyc  
Icon.

On rose

Caro

feet l

in the

is cl

wood

it is g

have

clear

foun

round

3. *S. glab...*  
lum  
simis

On roc

sylva

but i

4. *S. glab...*  
rotun  
natif

bellat

S. tussi

In Lab

*v. s.*

5. *S. caul...*  
nibu  
tisqu

parv

About

flow

6. *S. folii...*  
cord  
oblo

vissi

radii

*S. stric*

On the

—A

2. *S. caule virgato-paniculato, foliis amplexicaulibus oblongis acutis inæqualiter acuteque profunde dentatis, calycibus lævibus.*—*Willd. sp. pl. 3. p. 1974.*

Icon. *Pluk. phyt. t. 112. f. 1. mala.*

On road sides and in newly cleared grounds: Canada to Carolina. ☉. July, Aug. *v. v.* From two to five feet high. This is one of the plants which spring up in the most remote western countries, when the land is cleared of timber, particularly when the brushwood is burnt on the ground; from which circumstance it is generally known by the name of *Fire-weed*. I have frequently found it covering a square piece of cleared land, when there was not a single plant to be found in any other place for a considerable distance round it.

3. *S. glaber; foliis radicalibus spathulatis serratis in petiolum attenuatis, caulinis pinnatifidis dentatis remotissimis, pedunculis elongatis umbellato-corymbosis.*

On rocks, near the banks of rivers: about Easton, Pennsylvania. ♀. July, Aug. *v. v.* Resembling No. 8; but is destitute of a ray.

4. *S. glaber; foliis radicalibus longe petiolatis ovato-subrotundis subcordatis dentatis, caulinis 2. remotis pinnatifidis dentatis, pedunculis brevibus subternis umbellatis.*

*S. tussilaginoïdes. Walt. fl. car. 208?*

In Labrador. *Colmaster.* In Carolina. *Walter. ♀. v. s. in Herb. Dickson.* Not above a span high.

**\*\* *Floribus radiatis.***

5. *S. caule simplicissimo rigide erecto subnudo, foliis omnibus lanceolatis, radicalibus subintegris inciso-dentatisque, corymbo paucifloro, calycibus glabellis, radiis parvulis.*—*Mich. fl. amer. 2. p. 120.*

About lakes: Canada. *Michaux. +.* A small plant; flowers the size of *S. Jacobæa*.

6. *S. foliis radicalibus longissime petiolatis orbiculatis subcordatis crenatis, caulinis paucis remotissimis lineariblongis basi dilatatis inciso-dentatis, pedunculis brevissimis hirsutis subumbellatis, calycibus glabellis, radiis paucis brevissimis.*

*S. strictus. Herb. Banks. mss.*

On the rocky banks of rivers; Pennsylvania. ♀. May—Aug. *v. v.; v. s. in Herb. Banks.* About a foot

*hieracifolius.*

*elongatus.*

*pauciflorus.*

*pauperculus.*

*gracilis.*

high, very slender; flowers the smallest of all the species here enumerated.

- obovatus*. 7. *S. foliis radicalibus obovatis crenato-serratis petiolatis, caulinis pinnatifidis dentatis, floribus subumbellatis longe pedunculatis, caule glabriusculo.*—*Willd. sp. pl. 3. p. 1999.*  
*S. obtusatus. Herb. Banks. mss.*  
 On the side of hills and rocks, near rivers: New York to Virginia.  $\mathcal{U}$ . June, July. *v. v.*; *v. s. in Herb. Banks.* Flowers nearly the size of *S. Jacobæu*.
- Balsamitæ*. 8. *S. foliis radicalibus oblongis serratis petiolatis, caulinis inferioribus lyrato-pinnatifidis serratis, summis pinnatifidis dentatis, floribus subumbellatis, caule pedunculisque basi villosis.*—*Willd. sp. pl. 3. p. 1998.*  
*S. lyratus. Mich. fl. amer. 2. p. 120.*  
*S. glabellus. Lam. encycl. 7. p. 102.*  
 In rocky fertile soil: Pennsylvania to Virginia.  $\mathcal{U}$ . June, July. *v. v.* Flowers the size of the preceding.
- aureus*. 9. *S. foliis radicalibus ovatis cordatis serratis petiolatis, caulinis pinnatifidis dentatis, lacinia terminali lanceolata, pedunculis subumbellatis incrassatis.*—*Willd. sp. pl. 3. p. 1998.*  
 In shady woods, about rocks: Canada to Virginia.  $\mathcal{U}$ . June, July. *v. v.* Flowers the same size as the preceding.
- Cymbalaria*. 10. *S. foliis radicalibus petiolatis subrotundis basi truncatis dentatis, petiolis appendiculatis sublyratis, caulinis sessilibus linearibus inciso-dentatis, caule subuni-floro.*  
 On the north-west coast. *D. Nelson. v. s. in Herb. Banks.*
- canadensis*. 11. *S. foliis bipinnatis linearibus glabris, summis pinnatis, corymbis compositis fastigiatis.*—*Willd. sp. pl. 3. p. 1996.*  
 In Canada. *Kalm. +.*
- ciliatus*. 12. *S. caule piloso, foliis lanceolato-linearibus ciliatis.*—*Walt. fl. car. 208.*  
 In Carolina. *Walter. +.* From six to eight feet high; rays of the flower white.

1. *T. thy*  
*cord*  
*sp. 1*  
*Icon.*  
*In Can*  
*and*  
*Flov*

2. *T. thy*  
*bus*  
*Her*  
*On H*  
*Ban*

3. *T. thy*  
*rotu*  
*tus*  
*Icon.*  
*In La*  
*Her*

1. *I. foliis*  
*caly*  
*Icon.*  
*In low*  
*Pen*  
*July*  
*larg*

2. *I. vill*  
*nua*  
*tiola*  
*dula*  
*Plu*  
*I. glar*  
*Icon.*  
*In dry*  
 *$\mathcal{U}$ .*  
*ers*

3. *I. his*  
*lon*  
*dur*  
*I. sub*

632. TUSSILAGO. *Gen. pl.* 1289.

1. *T. thyrsso fastigiato, floribus radiatis, foliis subrotundo-cordatis inæqualiter dentatis subtus tomentosis.* *Willd. sp. pl.* 3. p. 1968.  
*Icon. Fl. dan.* 61. *Gmel. fl. sib.* 2. t. 70.  
 In Canada, and on the highest peaks of the Vermont and New Hampshire mountains. *℥. May. v. v.*  
 Flowers of the ray white, disk pale purple. *frigida.*
2. *T. thyrsso ovato fastigiato, floribus radiatis, foliis radicalibus oblongis acutis sagittatis integerrimis, lobis obtusis.* *Herb. Banks. mss.* *sagittata.*  
 On Hudson's Bay. *Hutchinson. ℥. v. s. in Herb. Banks.*
3. *T. thyrsso fastigiato, floribus obsolete radiatis, foliis subrotundo-cordatis semi-septemlobis inciso-dentatis subtus tomentosis.* *Willd. sp. pl.* 3. p. 1972. *palmata.*  
*Icon. Alt. kew.* 3. t. 11.  
 In Labrador. *Colmaster. ℥. April, May. v. s. in Herb. Dickson.*

633. INULA. *Gen. pl.* 1295.

1. *I. foliis amplexicaulibus ovatis rugosis subtus tomentosis, calycum squamis ovatis.* *Willd. sp. pl.* 3. p. 2089. *Helenium.*  
*Icon. Fl. dan.* 728. *Engl. bot.* 1546.  
 In low meadows and on road sides: New England to Pennsylvania; originally brought from Europe. *℥. July, Aug. v. v.* A tall rough-looking plant; flowers large, and, as all the rest, yellow.
2. *I. villosa; foliis sessilibus oblongo-lanceolatis basi attenuatis obtusis glanduloso-denticulatis, inferioribus petiolatis serratis, pedunculis axillaribus corymbosis glanduloso-pilosis.*—*Willd. sp. pl.* 3. p. 2099. *excl. syn. Plukenetii.* *mariana.*  
*I. glandulosa. Lam. encycl.* 3. p. 259.  
*Icon. Mill. dict. ic. t.* 57.  
 In dry sandy woods and fields: New Jersey to Carolina. *℥. Aug.—Oct. v. v.* A foot or more high; flowers the size of *I. Britannica.*
3. *I. hispido-pilosa, scaberrima; foliis arcte sessilibus oblongis acutis superne subdentatis utrinque scabris, pedunculis axillaribus corymbosis hispidis.* *scabra.*  
*I. subaxillaris. Lam. encycl.* 3. p. 259.

Icon. *Pluk. mant.* 340. f. 1. no. 5.

In the pine-barrens of South Carolina.  $\mathcal{U}$ . Aug. Sept. v. s. in. *Herb. Enslen.* About two feet high; flowers smaller than the preceding.

*falcata.*

4. *I. lanato-villosa*; foliis sessilibus linearibus acutissimis subfalcato-patentibus nervosis utrinque pilosis, pedunculis paucis axillaribus corymbosis calycibusque villosis.

*Aster gracilentus. Herb. Banks. mss.*

In sandy pine-woods: New Jersey.  $\mathcal{U}$ . Sept. Oct. v. v. Not above a span high; flowers the size and shape of No. 2.

*gossypina.*

5. *I. lanuginoso-candicans*; foliis sessilibus oblongo-spathulatis obtusis integerrimis, corymbo subfastigiato.—*Mich. fl. amer.* 2. p. 122.

*Inula lanata. Herb. Banks. mss.*

On the sea-coast of Carolina and Florida.  $\mathcal{U}$ . Aug.—Oct. v. s. About a foot high; flowers the size of No. 3.

*graminifolia.*

6. *I. argenteo-sericea*; caule simplicissimo, foliis longissime lanceolato-linearibus integerrimis erectis nervosis, corymbo composito laxo, calycibus turbinatis, squamis acutissimis carina serrato-glandulosis.—*Mich. fl. amer.* 2. p. 122.

In sandy dry woods: Pennsylvania to Florida.  $\mathcal{U}$ . Aug.—Oct. v. v. About a foot high; flowers small.

*argentea.*

7. *I. sericea*; foliis lanceolatis trinerviis erectis flexuosis, corymbo subcomposito stricto, squamis calycinis planis pubescentibus.—*Pers. syn.* 2. p. 452.

In Pennsylvania. *Persoon.*  $\mathcal{U}$ . +. Flower a great deal larger than the preceding species, with which it has a great affinity.

634. ERIGERON. *Gen. pl.* 1287.*alpinum.*

1. *E. villosum*; caule plerumque unifloro, calycibus villosis, radio patente, foliis lanceolatis obtusiusculis.—*Willd. sp. pl.* 3. p. 1959. *Smith fl. brit.* 2. p. 877.

Icon. *Engl. bot.* 464. *Fl. dan.* 292.

In Labrador. *Culmaster.*  $\mathcal{U}$ . June, July. v. s. in *Herb. Dickson.* The Labrador specimen is not above two inches high; flower large, rays purple.

*bellidifolium.*

2. *E. hirsutum, incanum*; foliis radicalibus obovatis subserratis, caulinis paucis distantibus lanceolatis integer-

rim  
pl.  
E. ser  
E. pul  
E. cau  
In sha  
Can  
or e  
whi  
som  
of  
3. E. gla  
subc  
cory  
lycis  
Aster v  
men  
In low  
Aug  
flowe  
4. E. tenu  
subly  
subsi  
sphæ  
Icon. A  
In Caro  
Ensle  
white  
5. E. pub  
tatis,  
plici  
ris,  
giori  
p. 22  
In field  
Sept.  
one t  
daisy  
6. E. pub  
supe  
crass  
rina  
sp. p  
In past

rimis, caule sub-3-floro, radiis elongatis.—*Willd. sp. pl.* 3. p. 1958.

*E. serpentaria. Herb. Banks. mss.*

*E. pulchellum. Mich. fl. amer.* 2. p. 224.

*E. caule simplicissimo, &c. Gron. fl. virg.* 122.

In shady woods, principally throughout the mountains : Canada to Carolina.  $\mathcal{U}$ . June—Aug. *v. v.* A foot or eighteen inches high ; flowers large, rays blueish-white ; sometimes it produces only one flower, and sometimes more than three. It is known by the name of *Poor Robin's Plantain*.

3. *E. glabrum* ; foliis radicalibus ovali-lanceolatis acutis subdentatis, caule simplicissimo subaphyllo elongato, corymbis terminalibus paucifloris, radiis longitudine calycis.—*Mich. fl. amer.* 2. p. 224.

*Aster vernus. Willd. sp. pl.* 3. p. 2029. *secundum specimen Clayton.*

In low grounds of Carolina and Georgia.  $\mathcal{U}$ . June—Aug. *v. v.* ; *v. s. in Herb. Gronov.* A foot high ; flowers small, rays blueish-white.

4. *E. tenue pubescens* ; foliis lanceolatis acutis, inferioribus sublyratis grosse dentatis supremis integerrimis, caule subsimplici summitate 3-floro, radiis calyce hemisphærico duplo longioribus.—*Lam. encycl.* 8. p. 491.

Icon. *Lam. illustr. t.* 681. *f.* 4.

In Carolina and Florida.  $\mathcal{U}$ . July, Aug. *v. s. in Herb. Enslen.* Not above a span high ; flowers pale blue or white.

5. *E. pubescens* ; foliis cuneato-oblongis rariter inciso-dentatis, caulinis semiamplexicaulibus, caule debili simplici superne corymboso, pedunculis elongatis unifloris, radiis capillaceis calyce hemisphærico duplo longioribus.—*Willd. sp. pl.* 3. p. 1957. *Mich. fl. amer.* 2. p. 223.

In fields and dry woods : Canada to Carolina.  $\mathcal{U}$ . Aug. Sept. *v. v.* A delicate and handsome plant, from one to two feet high ; flowers the size of a common daisy, rays of a beautiful blueish-purple.

6. *E. pubescens* ; foliis lanceolatis dentatis amplexicaulibus, superioribus integerrimis, pedunculis corymbosis in-crassatis, inferioribus elongatis, calycinis squamis carina pilosis, radiis calyce duplo longioribus.—*Willd. sp. pl.* 3. p. 1958.

In pastures and on fertile hills, near the banks of rivers :

*nudicaule.*

*philadelphicum.*

*purpureum.*

Canada to Virginia. ♀. July, Aug. v. v. A foot or eighteen inches high; flowers large, purple, and very ornamental.

- strigosum*. 7. *E. strigoso-pilosum*; foliis lanceolatis utrinque attenuatis medio grosse paucidentatis seu integerrimis, floribus corymboso-paniculatis.—*Willd. sp. pl.* 3. p. 1956. In fields and dry pastures; common: Canada to Virginia. ♂. July, Aug. v. v. A very troublesome weed; flowers white, resembling the common daisy.
- nervosum*. 8. *E. albido-pubescentis*; foliis linearilanceolatis integerrimis sericeis nervosis, floribus paniculatis.—*Willd. sp. pl.* 3. p. 1953. In old fields and woods; common: Canada to Virginia. ♀. July—Sept. v. v. Likewise a troublesome weed; flowers resembling the preceding.
- heterophyllum*. 9. *E. foliis radicalibus subrotundo-ovatis profunde dentatis petiolatis, caulibus lanceolatis acutis medio serratis, corymbo terminali.* *Willd. sp. pl.* 3. p. 1956. *Aster annuus. Willd. sp. pl.* 3. p. 2041. *Icon. Fl. dan.* 486. In old waste fields and on road sides; common. ♂. June—Aug. v. v. Flowers white.
- canadense*. 10. *E. caule hispido paniculatum ramosissimum, foliis lanceolato-linearibus ciliatis, calycibus cylindricis, radiis multiplici serie confertis brevissimis.*—*Willd. sp. pl.* 3. p. 1954. In dry fields and on road sides; common: Canada to Florida. ☉. July—Sept. v. v. A common weed; flowers small.
- divaricatum*. 11. *E. divaricato-ramosissimum, subfastigiato-paniculatum; foliis subulatis, floribus brevissime radiatis, corollulis diaci 4-fidis.*—*Mich. fl. amer.* 2. p. 123. In fields and meadows of Kentucky, and on the banks of the Missouri and Mississippi. ☉. July—Sept. v. s. Resembles the preceding.
- longifolium*. 12. *E. glaberrimum; caule virgatum-paniculato, ramis strictis, foliis longissime-linearibus strictis, calycibus ovatis, radiis vix calyce longioribus.*—*Lam. encycl.* 8. p. 480. In Carolina. ♀. July—Sept. v. s. About two feet high; rays yellow.
- hyssopifolium*. 13. *E. caule ramis sterilibus paniculato; paucis in pedunculos nudos protractis, foliis linearibus glabris ciliatis,*

ra  
an  
E. c  
Icon  
In lo  
—  
low  
14. E. pl  
tri  
lin  
un  
On  
Jul  
high  
cha  
pal  
1. S. ca  
scal  
abb  
Icon.  
In hec  
sylv  
Bar  
feet  
like  
2. S. cau  
vibu  
ere  
sp.  
In swa  
gini  
Fro  
3. S. cau  
tis g  
nicu  
sp.  
In wo  
Sep  
4. S. cau  
scat  
VOL. II.

radiis calyce cylindraceo multo longioribus.—*Mich. fl. amer.* 2. p. 123.

*E. carolinianum*. *Willd. sp. pl.* 3. p. 1953.

*Icon. Dill. elth. t.* 306. f. 394.

In low grounds: Canada to Carolina; rare. *fl.* July—Sept. *v. s.* Resembles the preceding; rays yellow.

14. *E. pilosum*, subcaule; foliis radicalibus longe petiolatis triplicato-3-partitis, laciniis linearibus divaricatis, caulinis linearibus plerumque indivisis, caule superne nudo unifloro. *compositum*,

On the banks of the Kooskoosky. *M. Lewis. fl.* July, Aug. *v. s.*; *v. v. cultum*. Not above a span high; flowers resembling a daisy exceedingly; they change during their flowering, from white to a lively pale red.

### 635. SOLIDAGO. *Gen. pl.* 1292,

\* *Racemis secundis; foliis triplinerviis.*

1. *S. caule villosa*, foliis lanceolatis serratis triplinerviis scabris, racemis paniculatis secundis recurvis, ligulis abbreviatis. *Willd. sp. pl.* 3. p. 2055. *canadensis*,

*Icon. Pluk. alm. t.* 263. f. 1.

In hedges, old fields, and along fences: Canada to Pennsylvania. *fl.* July—Sept. *v. v.*; *v. s. in Herb. Banks. et Lambert*. From eighteen inches to five feet high; the flowers of all the following species are, like the present, yellow and small.

2. *S. caule villosa erecto*, foliis lanceolatis serratis triplinerviis scabris subtus villosis, racemis spiciformibus erectis, innuptis nutantibus, ligulis abbreviatis. *Willd. sp. pl.* 3. p. 2055. *procera*,

In swamps, hedges, and about fences: Canada to Virginia. *fl.* July—Sept. *v. v.*; *v. s. in Herb. Banks*. From four to seven feet high.

3. *S. caule erecto tereti lævi*, foliis lineari-lanceolatis serratis glabris margine asperis triplinerviis, racemis paniculatis secundis, pedunculis pubescentibus.—*Willd. sp. pl.* 3. p. 2056. *serotina*.

In woods and hedges: New England to Pennsylvania. *fl.* Sept. Oct. *v. v.*; *v. s. in Herb. Banks*.

4. *S. caule erecto glabro*, foliis lanceolatis serratis margine scabris triplinerviis, racemis paniculatis se- *gigantea*.

cundis, pedunculis hirtis, ligulis abbreviatis. *Willd. sp. pl. 3. p. 2056.*

In open low places, on the side of fertile hills: New England to Virginia. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks.* From four to seven feet high.

*ciliaris.*

5. *S. caule erecto glabro, foliis lanceolatis subtriplinerviis glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. Willd. sp. pl. 3. p. 2056.*

In Pennsylvania. *Muhlenberg. W. +.*

*reflexa.*

6. *S. caule erecto villosa, foliis lanceolatis subserratis triplinerviis scabris reflexis, ramis paniculatis subsecundis reflexis. Willd. sp. pl. 3. p. 2056.*

In pine-woods and old fields: New Jersey to Carolina. *W.* Aug. Sept. *v. v.*; *v. s.* in *Herb. Banks.*

*lateriflora.*

7. *S. caule erecto pilosiusculo, foliis lanceolatis subtriplinerviis glabris margine scabris, inferioribus subserratis, racemis paniculatis subrecurvis secundis. Willd. sp. pl. 3. p. 2057.*

In old fields and dry woods: Canada to Carolina. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks.* Not more than half the size of No. 1; flowers larger than any of the preceding.

\*\* *Racemis secundis; foliis venosis.*

*aspera.*

8. *S. caule erecto tereti piloso, foliis ovatis subellipticis scaberrimis rugosis serratis enerviis, racemis paniculatis secundis. Willd. sp. pl. 3. p. 2057.*

Icon. *Dill. elth. t. 305. f. 392.*

In barren dry fields and woods: New York to Carolina. *W.* Sept.—Nov. *v. v.* *v. s.* in *Herb. Banks.*

*altissima.*

9. *S. caule erecto hirta, foliis lanceolatis inferioribus profunde serratis scaberrimis rugosis, paniculis secundis. Willd. sp. pl. 3. p. 2057.*

Icon. *Mart. cent. 14.*

*vulgaris.*

*α. S. caule 5-pedali piloso, serraturis profundis inæqualibus, racemis divaricatis. Ait. kew. 3. p. 212.*

*recurvata.*

*β. S. caule 3-pedali villosa, serraturis profundis subæqualibus. Ait. l. c.*

*virginiana.*

*γ. S. caule 5-pedali villosissimo, serraturis magnis, racemis vix divergentibus. Ait. l. c. Mill. dict.*

In hedges and fields; common. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* It is a very variable species, and scarcely two individuals look alike.

10. *S. caule erecto piloso, foliis lanceolatis subtriplinerviis glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. Willd. sp. pl. 3. p. 2056.*  
In open low places, on the side of fertile hills: New England to Virginia. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks.* From four to seven feet high.  
11. *S. caule erecto villosa, foliis lanceolatis subserratis triplinerviis scabris reflexis, ramis paniculatis subsecundis reflexis. Willd. sp. pl. 3. p. 2056.*  
In pine-woods and old fields: New Jersey to Carolina. *W.* Aug. Sept. *v. v.*; *v. s.* in *Herb. Banks.*  
12. *S. caule erecto pilosiusculo, foliis lanceolatis subtriplinerviis glabris margine scabris, inferioribus subserratis, racemis paniculatis subrecurvis secundis. Willd. sp. pl. 3. p. 2057.*  
In old fields and dry woods: Canada to Carolina. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks.* Not more than half the size of No. 1; flowers larger than any of the preceding.  
13. *S. caule erecto tereti piloso, foliis ovatis subellipticis scaberrimis rugosis serratis enerviis, racemis paniculatis secundis. Willd. sp. pl. 3. p. 2057.*  
Icon. *Dill. elth. t. 305. f. 392.*  
In barren dry fields and woods: New York to Carolina. *W.* Sept.—Nov. *v. v.* *v. s.* in *Herb. Banks.*  
14. *S. caule erecto hirta, foliis lanceolatis inferioribus profunde serratis scaberrimis rugosis, paniculis secundis. Willd. sp. pl. 3. p. 2057.*  
Icon. *Mart. cent. 14.*  
15. *S. caule erecto piloso, foliis lanceolatis subtriplinerviis glabris margine scabris subserratis, racemis paniculatis secundis, pedunculis glabris, bracteis ciliatis, ligulis abbreviatis. Willd. sp. pl. 3. p. 2056.*  
In open low places, on the side of fertile hills: New England to Virginia. *W.* Aug.—Oct. *v. v.*; *v. s.* in *Herb. Banks.* From four to seven feet high.

10. *S. caule erecto hirtio, foliis lanceolatis scaberrimis rugosis inferioribus adpresso-serratis, racemis paniculatis secundis patentissimis. Willd. sp. pl. 3. p. 2058. Mill. dict.*

*rugosa.**S. altissima* *α. Ait. kew. 3. p. 213.**Icon. Dill. elth. t. 308. f. 396.*

In dry barren soil: Canada to Virginia. *γ. Aug.—Oct. v. v.; v. s. in Herb. Banks. et Lambert.*

11. *S. caule erecto villosa, foliis lanceolatis molluscis serratis enervibus, racemis paniculatis secundis. Herb. Banks. mss.*

*villosa.**S. altissima β. Ait. kew. 3. p. 213.**S. pilosa. Mill. dict.*

In fields and woods; frequent. *γ. Aug.—Oct. v. v.; v. s. in Herb. Banks. et Lambert.* From eighteen inches to three feet high.

12. *S. caule erecto hirtio sulcato, foliis oblongis utrinque attenuatis acuminatis, supra glabris, subtus rugosis scabris, medio adpresso-serratis, racemis secundis.—Willd. sp. pl. 3. p. 2059.*

*scabra.*

In old fields and about fences: Pennsylvania to Virginia. *γ. Aug.—Oct. v. v.; v. s. in Herb. Lambert.*

13. *S. caule erecto tereti hirtio, foliis oblongis acutis subamplexicauli-sessilibus glabris margine scabris rariter obsolete dentatis, panicula nuda secunda pyramidata, ramis reflexis, pedunculis glabris.*

*pyramidata.*

In pine-barrens of Georgia. *Enslen. γ. Aug. Sept. v. s. in Herb. Enslen.* About two feet high; the leaves decrease toward the beginning of the panicle, which consists of lively yellow and very small flowers.

14. *S. caule erecto tomentoso, foliis caulinis lanceolatis hispidis integerrimis, radicalibus subcuneiformibus serratis, racemis paniculatis secundis. Willd. sp. pl. 3. p. 2059.*

*nemoralis.*

In sandy and barren fields; common: Canada to Carolina. *γ. Aug.—Oct. v. v.; v. s. in Herb. Banks.* The whole plant has a gray aspect, and is about a foot, or sometimes two, high.

15. *S. caule erecto glabro, foliis ellipticis serratis glabris, radicalibus oblongo-spathulatis, racemis paniculatis secundis patentibus, pedunculis pubescentibus. Willd. sp. pl. 3. p. 2059.*

*patula.*

In shady woods, in fertile soil: New York to Virginia. *γ. Sept. Oct. v. v.* Two feet high.

- ulmifolia*. 16. *S. caule erecto glabro striato, foliis ellipticis profunde serratis acuminatis subtus villosis, radicalibus obovatis, racemis paniculatis secundis, pedunculis villosis, ligulis abbreviatis.*—*Willd. sp. pl. 3. p. 2060.*  
In swamps and shady woods: New York to Virginia.  
℥. Aug.—Oct. *v. v.*
- arguta*. 17. *S. caule erecto glabro, foliis glabris argute inæqualiter serratis, caulinis ellipticis, radicalibus ovato-oblongis, racemis paniculatis secundis, ligulis elongatis.* *Willd. sp. pl. 3. p. 2060.*  
In woods and meadows: Canada to Virginia. ℥. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks.*
- juncea*. 18. *S. caule erecto glabro, foliis lanceolatis glabris margine scabris, inferioribus serratis, racemis paniculatis secundis.* *Willd. sp. pl. 3. p. 2060.*  
In sandy fields and woods: New Jersey to Carolina.  
℥. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.*
- elliptica*. 19. *S. caule erecto glabro, foliis ellipticis lævibus serratis, racemis paniculatis secundis, ligulis mediocribus.* *Willd. sp. pl. 3. p. 2060.*  
*S. latissimifolia. Mill. dict.*  
In shady woods, among rocks: New York to Virginia.  
℥. Aug.—Oct. *v. v.*; *v. s. in Herb. Banks.*
- asperata*. 20. *S. caule paniculato-corymboso, racemis suberectis, floribus adscendentibus, foliis lanceolatis serratis scabris.* *Herb. Banks. mss.*  
In Canada. ℥. *v. s. in Herb. Banks.*
- recurvata*. 21. *S. caule erecto pubescente, foliis lanceolatis serratis margine scabris, racemis elongatis secundis recurvatis paniculatis.* *Willd. enum. 889.*  
In shady woods: Pennsylvania and Virginia. ℥. Sept.—Nov. *v. v.*
- sempervirens*. 22. *S. caule erecto glabro, foliis lineari-lanceolatis subcarnosis lævibus integerrimis margine scabris, racemis paniculatis secundis, pedunculis pilosis.* *Willd. sp. pl. 3. p. 2060.*  
*Icon. Pluk. alm. t. 235. f. 5. Moris. hist. 3. s. 7. t. 23. f. 15.*  
In swamps and on the banks of rivers: Canada to Pennsylvania. ℥. Sept.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.*
- virgata*. 23. *S. caule glabro simplicissimo, foliis subcuneato-lanceolatis obtusis integerrimis glaberrimis appressis, supe-*

riorib  
apice  
fl. am  
In shad  
℥. A  
treme  
24. *S. caule*  
gerrin  
secun  
Icon. P  
In dry s  
to C  
moun  
Banks  
among  
used a  
fully e  
able s  
an arti  
high p  
25. *S. caule*  
flexis  
margin  
fl. am  
In open  
Sept.  
26. *S. glabra*  
panicu  
cibus  
amer.  
In the sa  
—Oct  
27. *S. caule*  
ramis  
sis.  
Icon. P  
In wood  
Aug.—  
disting  
racem  
28. *S. caule*  
tiolati  
pl. 3.

rioribus sensim minoribus, ramis paniculae elongatis apice racemifloris, pedunculis glabris secundis.—*Mich. fl. amer. 2. p. 117.*

In shady wet woods of Lower Carolina and Georgia. *fl. Aug.—Oct. v. v.* About two foot high; extremely smooth and slender.

24. *S. caule erecto pubescente, foliis lineari-lanceolatis integerrimis glabris margine scabris, racemis paniculatis secundis. Willd. sp. pl. 3. p. 2061.*

Icon. *Pluk. alm. 116. f. 6.*

In dry sunny situations, on fertile woodlands: Canada to Carolina; principally throughout the Allegany mountains. *fl. Aug. Oct.—v. v.; v. s. in Herb. Banks.* This is most generally and principally known among the inhabitants by the name of *Golden-rod*, and used as a wholesome tea. The flowers, gathered when fully expanded, and carefully dried, give a most agreeable substitute for tea, which for some time has been an article of exportation to China, where it fetches a high price.

*odora.*

25. *S. caule erecto tereti aspero, foliis arcte sessilibus reflexis lineari-lanceolatis mucronatis subtus subcarinatis margine asperis, panicula racemis recurvatis.—Mich. fl. amer. 2. p. 117.*

In open swamps of Virginia and Carolina. *fl. Aug. Sept. v. v.*

*retrorsa.*

\*\*\* *Racemis erectis.*

26. *S. glabra, suffruticosa; foliis lanceolatis obtusis enervibus, panicula composita multiflora, fasciculis erectis, calycibus angusto-oblongis 5-floris, radio unico.—Mich. fl. amer. 2. p. 116.*

In the sand-burrens of Virginia and Carolina. *fl. Aug.—Oct. v. v.*

*pauciflosculosa.*

27. *S. caule foliisque ellipticis pilosis, inferioribus serratis, ramis foliolosis, racemis erectis, foliolis calycinis obtusis. Willd. sp. pl. 3. p. 2061.*

Icon. *Pluk. alm. t. 114. f. 3.*

In woods and on dry hills: Canada to Carolina. *fl. Aug.—Oct. v. v.; v. s. in Herb. Banks.* It is easily distinguished from the rest, by the short and close racemes and white rays.

*bicolor.*

28. *S. caule erecto villosa, foliis ellipticis scabriusculis petiolatis, racemis erectis, ligulis elongatis. Willd. sp. pl. 3. p. 2062.*

*petiolaris.*

- In dry sandy soil : New Jersey to Carolina.  $\mathcal{U}$ . Sept.  
—Nov. *v. v.* ; *v. s.* in *Herb. Banks*.
- stricta*. 29. *S.* caule erecto glabro, foliis caulinis lanceolatis integerrimis glabris margine scabris, radicalibus serratis, racemis paniculatis erectis, pedunculis glabris. *Willd. sp. pl.* 3. p. 2062.  
In sandy woods : New Jersey to Carolina.  $\mathcal{U}$ . Aug.  
—Nov. *v. v.* ; *v. s.* in *Herb. Banks. et Lambert*.  
About two feet high, very smooth.
- lanceolata*. 30. *S.* caule hirsuto angulato ramosissimo, foliis lanceolatis linearibus integerrimis erectiusculis 3—5-nerviis scabriusculis : nervis subtus pilosis, axillis nudis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis altitudine disci.—*Willd. sp. pl.* 3. p. 2062.  
*Chrysocoma graminifolia. Sp. pl.* 1178.  
In fields and meadows, on the side of woods and rivers : Canada to Pennsylvania.  $\mathcal{U}$ . Sept.—Nov. *v. v.* ; *v. s.* in *Herb. Banks. et Lambert*. From four to five feet high ; flowers small.
- tenuifolia*. 31. *S.* caule scabro angulato corymboso-ramoso, foliis angustissime-linearibus patulis obsolete 3-nerviis scabris, axillis foliosis, corymbis terminalibus fastigiatis, ramulis capitatis, ligulis disco vix altioribus.  
*S. lanceolata*  $\beta$ . minor. *Mich. fl. amer.* 2. p. 116.  
In pine-barrens : New Jersey to Carolina.  $\mathcal{U}$ . Sept. Oct. *v. v.* Not above a foot high ; leaves very small and narrow.
- Sarothræ*. 32. *S.* caule angulato scabro inferne nudo, superne corymboso, ramis summitate paucifloris, foliis linearibus stricte-appressis obsolete 3-nerviis utrinque scabris, axillis nudis, ligulis disco duplo longioribus.  
On the plains of the Missouri. *M. Lewis. U.* Sept. *v. s.* in *Herb. Lewis*. About a span high ; resembling *Hypericum Sarothra* in general habit very much. This and the two preceding have a great affinity to one another ; but I consider them good and permanent species, as there are no intermediate varieties, which might lead to the suspicion that all belong to one genuine species.
- cæsia*. 33. *S.* caule lævi erecto, foliis lanceolatis glabris, racemis erectis, ligulis mediocribus. *Willd. sp. pl.* 3. p. 2062.  
*Icon. Dill. elth. t.* 307. f. 395.

In w  
A  
34. *S.* ca  
br  
el  
In sa  
Se  
35. *S.* ca  
in  
lia  
In gu  
O  
36. *S.* ca  
br  
ere  
In N  
37. *S.* ca  
sca  
ere  
In sa  
Au  
38. *S.* ca  
mi  
du  
pl.  
In sa  
*v.*  
res  
bly  
39. *S.* ca  
teg  
tis  
*W*  
Icon  
On t  
Ju  
T  
40. *S.* ca  
m  
in  
*W*  
*S.* in  
On

In woods and fields: New England to Carolina.  $\mathcal{U}$ .  
Aug.—Oct. *v. v.*

34. *S. caule glabro paniculato, foliis lanceolatis serratis glabris margine scabris, ramis apice racemosis, ligulis elongatis.*—*Willd. enum.* 891.

*livida.*

In sandy fields and woods: New York to Virginia.  $\mathcal{U}$ .  
Sept. Oct. *v. v.*

35. *S. caule erecto hispido scabro, foliis lanceolatis scabris integerrimis, radicalibus serratis, racemis erectis, ligulis mediocribus.*—*Willd. sp. pl.* 3. p. 2063.

*hispida.*

In grassy fields and woods: New Jersey to Virginia.  $\mathcal{U}$ .  
Oct. Nov. *v. v.* Resembles No. 33.

36. *S. caule paniculato hirtio, foliis lanceolatis utrinque scabris, caulinis serratis, ramis integerrimis, racemis erectis, ligulis elongatis.* *Willd. enum.* 891.

*hirta.*

In North America. *Willdenow.*  $\mathcal{U}$ . +.

37. *S. caule ramoso pubescente, foliis lanceolatis utrinque scabris attenuatis 3-nervibus integerrimis, racemis erectis, ligulis elongatis.* *Willd. enum.* 891.

*lithospermifolia.*

In sandy barren woods: New Jersey to Carolina.  $\mathcal{U}$ .  
Aug.—Oct. *v. v.*

38. *S. caule erecto lævi, foliis lanceolatis carnosius integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis villosis, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2063.

*lævigata.*

In salt-marshes: Canada to Virginia.  $\mathcal{U}$ . Sept.—Nov.  
*v. v.*; *v. s. in Herb. Banks.* A tall robust species, resembling the following one very much, and probably nothing more than a variety.

39. *S. caule obliquo glabro, foliis lanceolatis subcarnosis integerrimis undique lævibus, racemis paniculatis erectis, pedunculis squamosis glabris, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2063.

*mexicana.*

Icon. *Dodart. act.* 4. t. 219.

On the banks of rivers and ditches, near salt-water.  $\mathcal{U}$ .  
July—Sept. *v. v.*; *v. s. in Herb. Banks. et Lambert.*  
Tall; flowers large.

40. *S. caule erecto subpubescente, foliis lineari-lanceolatis membranaceis basi attenuatis glabris margine scabris, infimis subserratis, racemis erectis, ligulis elongatis.* *Willd. sp. pl.* 3. p. 2064.

*viminea.*

*S. integerrima. Mill. dict.*

On the banks of rivers and ditches: Canada to Virginia.

4. Aug.—Oct. *v. v.* ; *v. s.* in *Herb. Banks. et Lam. bert.* Resembles the preceding, but the leaves are membranaceous, &c.
- erecta.* 41. *S. caule subvillosa, foliis lanceolatis venosis glabris integerrimis subpetiolatis.* *Herb. Banks. mss.*  
 In North America. 4. *v. s.* in *Herb. Banks.*
- macrophylla.* 42. *S. foliis inferioribus ovatis acuminatis attenuatis inaequaliter argute serratis glabris, caulinis lanceolatis utrinque attenuatis subaessilibus serratis, racemis axillaribus pedunculatis foliosis, longitudine foliorum, calycibus oblongis turgidis multifloris, ligulis subelongatis.*—*Herb. Banks. mss.*  
 In Canada. 4. *v. s.* in *Herb. Banks.* About three feet high ; it is intermediate between this genus and *Aster*.
- glomerata.* 43. *S. caule humili simplicissimo, foliis glabris oblongo-lanceolatis serratis, racemo simplici e glomerulis axillaribus : superioribus capitato-congestis, calycibus turgidis multifloris.*—*Mich. fl. amer. 2. p. 117.*  
 In the mountains of Carolina. *Michaux. 4. +.*
- flexicaulis.* 44. *S. caule flexuoso glabro angulato, foliis ovatis acuminatis serratis glabris, racemis erectis axillaribus, ligulis mediocribus.*—*Willd. sp. pl. 3. p. 2064.*  
*Icon. Pluk. alm. t. 235. f. 3. Rob. ic. 22.*
- latifolia.* 45. *S. Pluk. alm. t. 235. f. 4.*  
 In woods and fields ; common : Canada to Carolina. 4. Aug.—Oct. *v. v.* ; *v. s.* in *Herb. Banks.* This is the most common species.
- axillaris.* 45. *S. caule glabro tereti stricto, foliis lanceolatis serratis glabris, racemis axillaribus subglobosis erectis, ligulis elongatis.*—*Herb. Banks. mss.*  
 In shady woods : Canada to Virginia. 4. Aug.—Oct. *v. v.* ; *v. s.* in *Herb. Banks.*
- Virgaurea.* 46. *S. caule erecto tereti superne ramoso et pubescente, foliis caulinis lanceolatis utrinque attenuatis serratis, inferioribus ellipticis pilosiusculis, racemis erectis, ligulis elongatis.* *Willd. sp. pl. 3. p. 2065.*  
*Icon. Engl. bot. 301.*  
 In Labrador. *Colmaster. 4. Aug.—Oct. v. s.* in *Herb. Dickson.*
- multiradiata.* 47. *S. caule villosiusculo, foliis sessilibus lanceolatis glabris ciliatis, inferioribus apice serratis, racemo terminali*

erect  
 p. 20  
 In Lab  
 in He  
 48. S. caule  
 glabri  
 Bank  
 In Nort  
 49. S. caule  
 culis,  
 mss.  
 In Nort  
 50. S. caule  
 intege  
 latis,  
 pl. 3.  
 Icon. H  
 In the t  
 Aug-  
 Flowe  
 51. S. foliis  
 diusc  
 In sandy  
 rough  
 1. A. foliis  
 margi  
 tis, r  
 brevic  
 In sandy  
 Aug-  
 From  
 tened  
 disk y  
 2. A. foliis  
 mis  
 giatis  
 lycib  
 obtus  
 p. 20  
 Conyza

erecto, ligulis elongatis numerosis. *Willd. sp. pl.* 3. p. 2066.

In Labrador and Hudson's Bay. *W.* Aug.—Oct. *v. s.* in *Herb. Dickson. et Banks.*

48. *S. caule simplici erecto glabro, foliis lanceolatis serratis glabris basi attenuatis elongatis, racemo erecto. Herb. Banks. mss.*

*humilis.*

In North America. *W. v. s. in Herb. Banks.*

49. *S. caule piloso tereti, foliis lanceolatis subtus pilosisculis, racemis erectis, ligulis elongatis. Herb. Banks. mss.*

*elata.*

In North America. *W. v. s. in Herb. Banks.*

50. *S. caule foliisque ovato-oblongis pilosis scabris, caulinis integerrimis, infimis serratis, ramis floriferis paniculatis, racemis compactis, ligulis elongatis. Willd. sp. pl.* 3. p. 2067.

*rigida.*

Icon. *Herm. parad.* 243.

In the tract of mountains: New Jersey to Carolina. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* Flowers large; leaves very rough.

51. *S. foliis radicalibus ovato-oblongis petiolatis, caule nudiusculo ramoso fastigiato. Willd. sp. pl.* 3. p. 2067.

*noveboracensis.*

In sandy fields and woods. *W.* Sept. Oct. *v. v.* Leaves rough; flowers large.

### 636. ASTER. *Gen. pl.* 1291.

#### \* *Foliis integerrimis.*

1. *A. foliis lineari-lanceolatis 3-nervibus punctatis acutis margine scabris, ramulis corymboso-fastigiatis coarctatis, radio sub-5-floro, calycibus imbricatis disco duplo brevioribus. Willd. sp. pl.* 3. p. 2022.

*hyssopifolius.*

In sandy fields and woods: New Jersey to Carolina. *W.* Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* From a foot to two high; flowers in a close and flattened corymb; ray white, with a tinge of purple; disk yellow.

2. *A. foliis lineari-lanceolatis obsolete trinervibus integerrimis obtusis margine scabris, ramis corymboso-fastigiatis, floribus sessilibus aggregatis, radio 5-floro, calycibus disco brevioribus imbricatis, squamis oblongis obtusis adpressis apice subreflexis.—Willd. sp. pl.* 3. p. 2024.

*solidaginoi-des.*

*Conyza linifolia. Sp. pl.* 1205.

Icon. *Pluk. alm. t. 79. f. 2.*

In dry swamps and on the borders of woods: Pennsylvania to Carolina.  $\gamma$ . Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About two feet high; the scales of the calyx white, with green tips; rays long, white.

*tordifolius.*

3. *A. foliis cuneato-obovatis acutis enervibus utrinque scabris tortuoso-patulis, corymbo composito subfastigiato, calycibus cylindricis imbricatis basi bibracteatis, squamis oblongis acutiusculis adpressis, radio 5-floro.*—*Mich. fl. amer. 2. p. 109.*

*Conyza bifoliata. Walt. fl. car. 204.*

In Lower Carolina and Georgia.  $\gamma$ . Aug.—Oct. *v. s. in Herb. Enslen.* About a foot high; flowers the size of the preceding, rays white.

*ledifolius.*

4. *A. foliis lineari-lanceolatis basi attenuatis enervibus scabriusculis margine revolutis, ramis corymbosis, ramulis filiformibus unifloris nudiusculis, calycibus laxis imbricatis disco duplo brevioribus, foliolis acutissimis, radio sub-20-floro.*

*A. nemoralis. Ait. kew. 3. p. 198.*

*uniflorus.*

- $\beta$ . *A. caule simplicissimo unifloro.*

*A. uniflorus. Mich. fl. amer. 2. p. 110?*

In sphagnum bogs and about mountain-lakes: Canada to New Jersey.  $\gamma$ . Sept. Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About a foot high; flowers middle-sized; disk yellowish white; rays lilac or reddish-purple, twice the length of the disk. Sometimes the leaves have a small indenture on each side.

*rigidus.*

5. *A. foliis linearibus mucronatis subcarinatis rigidis margine scabro-ciliatis, caulibus reflexis, rameis patentibus subulatis, caule erecto superne subramoso, ramulis 1-floris corymbosis, calycibus imbricatis disco duplo brevioribus, squamis carinatis obtusiusculis, radiis sub-10-floris reflexis.*—*Willd. sp. pl. 3. p. 2032. Mich. fl. amer. 2. p. 118.*

*A. nemoralis. Willd. sp. pl. 3. p. 2021. excl. syn. Aiton.*

*A. linearifolius. Herb. Banks. et Lambert.*

Icon. *Pluk. alm. t. 14. f. 7.*

In sandy fields and pine-barrens: New Jersey to Carolina.  $\gamma$ . Aug.—Oct. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About a foot or less high; flowers nearly the size of the preceding, rays a beautiful pale violet-blue, disk yellow.

6. *A. foliis*  
tatis ca  
subdec  
imbric  
*Mich.*

*A. squarr*

In dry, se

sylvani

in Her

more b

rough,

crowde

same c

naked

7. *A. foliis*

erectis,

lycibus

*mss.*

At Hudso

Flower

8. *A. foliis*

tentibus

bus in

*Willd.*

In dry sh

to Virg

teen in

large d

9. *A. foliis*

villosis,

uniflor

lanceol

*A. villos*

In natur

—Oct

10. *A. glabe*

multifl

ceis, l

In salt-m

Nov.

11. *A. foliis*

caule

calyci

sis.

6. A. foliis crebris linearibus mucronatis enervibus impunctatis carinatis scabris rigidis, ramis recurvatis, caule subdecumbente, ramis fastigiatis 1-floris, calycibus imbricatis longitudine disci.—*Willd. sp. pl. 3. p. 2024. Mich. fl. amer. 2. p. 110.* *linariifolius.*

A. squarrosus. *Herb. Banks. mss.*

In dry, sandy and gravelly fields, and among rocks: Pennsylvania to Carolina.  $\mathcal{A}$ . Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks.* Resembles the preceding, but is more branching and of lower growth; the stems are rough, and generally of a purple colour; leaves more crowded, smaller, and more reflex; flowers of the same colour, but smaller, and not raised on almost naked peduncles.

7. A. foliis angusto-linearibus enervibus impunctatis glabris erectis, ramulis terminalibus nudiusculis 1-floris, calycibus laxis discum subæquantibus.—*Herb. Banks. mss.* *graminifolius.*

At Hudson's Bay.  $\mathcal{A}$ . Aug. Sept. *v. s.* in *Herb. Banks.* Flowers pale-purple; not above six inches high.

8. A. foliis linearibus enervibus punctatis scabris reflexo-patentibus, ramis corymboso-fastigiatis foliosis, calycibus imbricatis brevibus, radiis disco subæqualibus.—*Willd. sp. pl. 3. p. 2024.* *linifolius.*

In dry shady woods and exsiccated swamps: Pennsylvania to Virginia.  $\mathcal{A}$ . Sept.—Nov. *v. v.* About eighteen inches or two feet high; flowers the size of a large daisy; rays white or faintly purple.

9. A. foliis lineari-lanceolatis albo-villosis, caule ramoso villosulo, ramis recurvato-patulis, ramulis subsecundis unifloris, calycibus oblongis laxis imbricatis, squamis lanceolatis mucronatis.—*Willd. sp. pl. 3. p. 2045.* *pilosus.*

A. villosus. *Mich. fl. amer. 2. p. 113.*

In natural meadows of the Illinois country.  $\mathcal{A}$ . Aug.—Oct. +.

10. A. glaberrimus, parviflorus; caule paniculato, ramis multifloris, foliis lineari-subulatis, calycibus cylindraceis, ligulis radii minutis. *Mich. fl. amer. 2. p. 111.* *subulatus.*

In salt-marshes: Pennsylvania to Carolina.  $\mathcal{A}$ . Aug.—Nov. +.

11. A. foliis lineari-lanceolatis utrinque attenuatis acuminatis, caule pubescente paniculato erecto, ramis paucifloris, calycibus imbricatis, squamis linearibus acutis adpressis. *Willd. sp. pl. 3. p. 2025.* *foliolosus.*

Icon. *Dill. elth. t. 35. f. 39?*

In dry barren fields and on road sides: Canada to Carolina. *Æ. Aug.—Oct. v. v.; v. s. in Herb. Lambert.* Flowers small, white; scarcely a distinct species from the following. There is no specimen of it in the Banksian Herbarium.

- tenuifolius.* 12. *A. foliis linearilanceolatis utrinque attenuatis margine hispidis, caule glabro ramoso erecto, ramulis unifloris, calycibus imbricatis, squamis oblongis acutis laxis. Willd. sp. pl. 3. p. 2026.*

Icon. *Pluk. alm. 78. f. 5.*

On road sides and barren fields. *Aug.—Nov. v. v.; v. s. in Herb. Banks. et Lambert.* Flowers the same as the preceding, which I consider only a variety of the present species.

- dumosus.* 13. *A. foliis linearibus glabris, ramulorum brevissimis, ramis paniculatis, calycibus cylindraceis arcte imbricatis. Willd. sp. pl. 3. p. 2026.*

- violaceus.* *α. A. radio pallide violaceo, caule pubescente. Ait. kew. 3. p. 202.*

- albus.* *β. A. radio albo, caule glabro. Ait. l. c.*

Icon. *Herm. parad. 95. Pluk. alm. t. 78. f. 6.*

In dry barren fields and sand-barrens: New England to Carolina. *Æ. Aug.—Nov. v. v.; v. s. in Herb. Banks. et Lambert.* Flowers small, rays white, disk yellow.

- ericoides.* 14. *A. foliis linearibus glaberrimis, ramulorum subulatis approximatis, caulibus elongatis, calycibus subsquarrosis, foliolis acutis, caule glabro. Willd. sp. pl. 3. p. 2027.*

In barren grounds and on road sides; common: Canada to Carolina. *Æ. Aug.—Nov. v. v.; v. s. in Herb. Banks. et Lambert.* Flowers the size and colour of the preceding.

- multiflorus.* 15. *A. foliis linearibus glabriusculis, caule ramosissimo diffuso pubescente, ramulis secundis, calycibus imbricatis, squamis oblongis squarrosis acutis. Willd. sp. pl. 3. p. 2027.*

Icon. *Dill. elth. t. 36. f. 40.*

In dry fields, and on road sides: Canada to Carolina. *Æ. Aug.—Nov. v. v.; v. s. in Herb. Banks. et Lambert.* Probably only a variety of the preceding.

- ciliatus.* 16. *A. foliis ciliatis, caulibus linearilanceolatis nervosis, ramis brevissimis lanceolatis 3-nerviis, caule ramoso*

pubescens  
squamis  
p. 2027.

In North A  
the preced

17. *A. cano-pu-  
bosa ram-  
mis disco-  
On the ban-  
Flowers*

18. *A. foliis re-  
berrimis  
cibus squ-  
pl. 3. p. 2027.*

In marshes  
—Nov.  
large, rays

19. *A. glaberr-  
subreflex-  
patulis se-  
ricatis sub-  
sis acutis.*

In salt-marsh  
Nov. v.  
smaller;  
yellow.

20. *A. humilis;  
bus, foliis  
spatulati-  
lycis squa-  
amer. 2. p. 2027.*

In woods of  
*Michaux.*

21. *A. foliis cre-  
hispidis,  
floris, cal-  
tis obtusi-  
mer. 2. p. 2027.*

In dry barre  
v. s. Rese  
blue.

22. *A. foliis cre-  
hispidis,*

pubescente, ramis paniculatis, calycibus imbricatis, squamis spathulatis squarrosis. *Willd. sp. pl.* 3. p. 2027.

In North America. *Muhlenberg.*  $\mathcal{U}$ . +. Resembles the preceding one.

17. *A. cano-pubescentis*; foliis linearibus, panicula corymbosa ramosissima foliosa, calycibus imbricatis acutissimis disco longioribus.

*canescens.*

On the banks of the Missouri.  $\mathcal{U}$ . Aug.—Nov. *v. s.* Flowers the size of a daisy, rays pale purple.

18. *A. foliis remotis linearibus amplexicaulibus erectis glaberrimis margine scabris, pedunculis fere nudis, calycibus squarrosis basi foliis 2. suffultis.*—*Willd. sp. pl.* 3. p. 2033.

*paludosus.*

In marshes and swamps of Lower Carolina.  $\mathcal{U}$ . Aug.—Nov. *v. s. in Herb. Banks. et Lambert.* Flowers large, rays blue, disk yellow.

19. *A. glaberrimus*; foliis subulato-linearibus subcarnosis subreflexis, caule tenui ramosissimo, ramis ramulisque patulis setaceis 1-floris, squamis pedunculorum divaricatis subulatis, calycibus imbricatis, squamis adpressis acutis.—*Mich. fl. amer.* 2. p. 112.

*sparisiflorus.*

In salt-marshes: New York to Carolina.  $\mathcal{U}$ . Sept.—Nov. *v. v.* Resembles the preceding one; flowers smaller; rays pale purple or white, disk brownish-yellow.

20. *A. humilis*; radice repente, caulibus debilibus simplicibus, foliis longe lanceolatis glabriusculis, radicalibus spathulatis, corymbo terminali incompte rarifloro, calycis squamis lineari-oblongis obtusiusculis. *Mich. fl. amer.* 2. p. 113.

*surculosus.*

In woods of North Carolina, in the county of Burke. *Michaux.* +.

21. *A. foliis creberrimis linearibus obtusis reflexis margine hispidis, caule ramoso diffuso glabro, ramulis unifloris, calycibus imbricatis, squamis lineari-spathulatis obtusis.*—*Willd. sp. pl.* 3. p. 2028. *Mich. fl. amer.* 2. p. 112.

*coridifolius.*

In dry barren soil in Lower Carolina.  $\mathcal{U}$ . Aug.—Nov. *v. s.* Resembles the following species; flowers bright blue.

22. *A. foliis creberrimis ovatis acuminatis reflexis margine hispidis, caule ramoso hirtio, ramulis unifloris, caly-*

*squarrosus.*

- cibus imbricatis, squamis lineari-cuneatis acutis squarosis. *Willd. sp. pl. 3. p. 2028. Walt. fl. car. 209.*  
In pine-barrens of Lower Carolina.  $\frac{1}{2}$ . Aug.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Has a striking resemblance to *A. reflexus* from the Cape of Good Hope, and is a very ornamental plant; flowers blue and large.
- concolor.* 23. *A. foliis oblongo-lanceolatis utrinque cano-pubescentibus, caule simplicissimo erecto pubescente, racemo terminali, calycibus imbricatis, squamis lanceolatis sericeis adpressis. Willd. sp. pl. 3. p. 2029.*  
In sandy pine and oak woods near the sea-coast: New Jersey to Florida.  $\frac{1}{2}$ . Aug.—Nov. *v. v.*; *v. s. in Herb. Banks. et Lambert.* About a foot high; flowers, both ray and disk, of an agreeable reddish-purple. This is one of the handsomest of the American *Asters*, and highly deserves to be introduced as an ornamental plant.
- sericeus.* 24. *A. foliis oblongo-lanceolatis sessilibus sericeo-tomentosis, caule gracili decumbente laxo ramoso, ramis ramulisque subunifloris, calycibus foliaceis subsquarrosis. —Willd. sp. pl. 3. p. 2016.*  
*A. argenteus. Mich. fl. amer. 2. p. 111.*  
Icon. *Vent. hort. cels. t. 33.*  
On the banks of rivers, among rocks, in the Illinois country, and on the Mississippi and Missouri.  $\frac{1}{2}$ . Sept. Oct. *v. s. in Herb. Lambert.* A beautiful species; leaves resemble those of *Protea argentea*; flowers large, rays a fine purple, disk pale-yellow.
- reticulatus.* 25. *A. undique cano-tomentosus; foliis lanceolato-oblongis utrinque acutis sessilibus margine revolutis, subtus reticulato-venosis triplinervibus, caule superne ramoso, ramis apice corymboso-racemifloris, pedunculis subaphyllis, calycibus imbricatis laxiusculis, squamis acutissimis.*  
In dry swamps of Carolina and Georgia.  $\frac{1}{2}$ . Aug.—Oct. *v. v.* About three feet high; flowers middle-sized, rays and florets white.
- cornifolius.* 26. *A. glaber; foliis oblongo-ovatis acuminatis breviteriatis margine scabris, caule glabro, panicula pauciflora, ramis bifloris, calycibus subimbricatis. —Willd. sp. pl. 3. p. 2039.*  
In Pennsylvania. *Muhlenberg. \frac{1}{2}. +.*
- humilis.* 27. *A. foliis subrhomboideis ovali-lanceolatis utrinque acu-*

mina  
diver  
laxio  
p. 20  
A. infir  
A. diva  
cimen  
Icon. I  
In shac  
Aug.  
Not  
in pro  
28. A. foli  
scabr  
lycibu  
Lam.  
A. umb  
On the  
rolina  
et La  
29. A. foli  
glabr  
squam  
p. 20  
A. prae  
Icon. R  
In low  
Virgi  
Bank  
flowe  
30. A. foli  
marg  
ramu  
tis æ  
In dry  
 $\frac{1}{2}$ .  
vert.  
the  
31. A. fol  
auri  
subs  
laxi  
pl. 3  
Icon.

minatis subpetiolatis glabris margine hispidis, corymbo divergenti-dichotomo nudiusculo paucifloro, calycibus laxis imbricatis, radiis 8-floris.—*Willd. sp. pl.* 3. p. 2038.

A. infirmus. *Mich. fl. amer.* 2. p. 109.

A. divaricatus. *Willd. sp. pl.* 3. p. 2044. *secundum specimen Gronov. et Banks.*

Icon. *Willd. hort. berol.* 67. *Pluk. alm. t.* 79. f. 1.

In shady and rocky places: Canada to Carolina.  $\frac{1}{2}$ .

Aug.—Oct. v. v.; v. s. in *Herb. Banks. et Gronov.*

Not above a foot high; flowers clear white, and large in proportion to the plant.

28. A. foliis lanceolatis basi attenuatis acuminatis margine amygdalinus. scabris, caule simplici apice corymboso-fastigiato, calycibus laxis imbricatis, squamis lanceolatis obtusis.—*Lam. encycl.* 1. p. 303.

A. umbellatus. *Ait. kew.* 3. p. 199.

On the banks of rivers and in swamps: Canada to Carolina.  $\frac{1}{2}$ . Sept.—Nov. v. v.; v. s. in *Herb. Banks. et Lambert.* Rays large, white.

29. A. foliis lineari-lanceolatis subintegerrimis glabris, caule glabro apice paniculato, calycibus laxis imbricatis, squamis acutis apice patulis.—*Willd. sp. pl.* 3. p. 2030.

*salicifolius.*

A. præaltus. *Lam. encycl. suppl.* 1. p. 493.

Icon. *Rob. ic.* 307.

In low grounds, on the side of ditches: New York to Virginia.  $\frac{1}{2}$ . Aug.—Oct. v. v.; v. s. in *Herb. Banks. et Lambert.* From four to six feet high; flowers middle-sized, reddish-blue.

30. A. foliis lanceolatis subamplexicaulibus apice attenuatis margine scabris, caule a basi ramoso erecto hispido, ramulis pilosis, calycinis squamis laxis linearibus acutis æqualibus.—*Willd. sp. pl.* 3. p. 2030.

*æstivus.*

In dry swamps and copses: New York and Pennsylvania.  $\frac{1}{2}$ . July—Sept. v. v.; v. s. in *Herb. Banks. et Lambert.* Not above two feet high; flowers resembling the preceding, rays blue.

31. A. foliis lineari-lanceolatis pilosis amplexicaulibus basi auriculatis, caule simpliciusculo piloso stricto, floribus subsessilibus terminalibus confertis, calycinis squamis laxis coloratis lanceolatis disco longioribus.—*Willd. sp. pl.* 3. p. 2032.

Icon. *Herm. parad.* 98.

On the banks of rivers and borders of meadows: Canada to Virginia.  $\mathcal{A}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* A highly ornamental species; in rich moist soil it will grow to the height of ten feet: flowers large, rays blue or purple, and almost every shade between red and blue.

*cyaneus.*

32. *A. foliis linearilanceolatis amplexicaulibus laevigatis, caule virgato-paniculato glaberrimo, ramis racemifloris, calycinis squamis laxis lanceolatis discum æquantibus, interioribus apice coloratis.*—*Hoffm. phytogr.* 1. p. 71. *t. B. f.* 1.

*A. rubricaulis.* *Lam. encycl.* 1. p. 305.

*A. spurius.* *Willd. sp. pl.* 3. p. 2032.

*A. Novæ anglie.*  $\beta$ . *Ait. kew.* 3. p. 201.

In old meadows and dry swamps: New England to Carolina.  $\mathcal{A}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Lambert.* From three to four feet high; flowers large, in great abundance, of various tints of blue and purple; the handsomest of the genus.

- carolinianus.* 33. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208. In shady moist hedges and swamps: Carolina and Georgia.  $\mathcal{A}$ .  $\frac{1}{2}$ . Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

- grandiflorus.* 34. *A. foliis linearibus rigidis acutiusculis subamplexicaulibus, rameis reflexis, margine ciliato-hispidis, caule ramoso hirtio, ramis unifloris, calycinis squamis squarrosis linearilanceolatis.* *Willd. sp. pl.* 3. p. 2033. *Icon. Mill. ic.* 282. *Dill. elth t.* 36. *f.* 41. *Mart. cent.* 19. *Hoffm. phyt.* 1. p. 65. *t. A. f.* 1.

In dry sandy woods: Virginia to Carolina.  $\mathcal{A}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks.* About two feet high; leaves small; flowers large, rays purple and blue, disk yellow.

- phlogifolius.* 35. *A. foliis lanceolatis cordatis amplexicaulibus subtus pubescentibus, margine scabris, caule simplicissimo pubescente, panicula terminali laxa rariflora, calycinis squamis laxis imbricatis lanceolatis.*—*Willd. sp. pl.* 3. p. 2034.

*A. amplexicaulis.* *Mich. fl. amer.* 2. p. 114.

In shady moist places: New Jersey to Virginia.  $\mathcal{A}$ .

Aug.  
high;

36. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208. In dry moist hedges and swamps: Carolina and Georgia.  $\mathcal{A}$ .  $\frac{1}{2}$ . Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

37. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208. In dry moist hedges and swamps: Carolina and Georgia.  $\mathcal{A}$ .  $\frac{1}{2}$ . Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

38. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208. In dry moist hedges and swamps: Carolina and Georgia.  $\mathcal{A}$ .  $\frac{1}{2}$ . Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

39. *A. foliis oblongis utrinque attenuatis sessilibus, caule subscandente ramosissimo, ramulis pubescentibus summitate paucifloris, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl.* 3. p. 2017. *Walt. fl. car.* 208. In dry moist hedges and swamps: Carolina and Georgia.  $\mathcal{A}$ .  $\frac{1}{2}$ . Aug. Sept. *v. v.* From six to fifteen feet high; flowers large; rays purple or flesh-coloured, disk yellowish-purple.

Aug.—Nov. *v. v.* From eighteen inches to a foot high; flowers middle-sized, rays violet.

36. *A. foliis oblongo-lanceolatis ciliatis cordatis amplexicaulibus utrinque scabris pilosis, caule ramoso hirsuto, ramis patentibus elongatis paucifloris microphyllis, calycinis squamis imbricatis lanceolatis patulis.* — *Willd. sp. pl.* 3. p. 2034.

*patens.*

*A. diversifolius. Mich. fl. amer.* 2. p. 113?

In hedges, old drying up swamps, and sometimes among rocks: New England to Carolina. *U.* Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* From a foot to two high; flowers middle-sized, rays purple or blue, disk yellow.

\*\* *Foliis cordatis ovatisque, serratis.*

37. *A. foliis oblongis cordatis amplexicaulibus integerrimis pilosis subundulatis, inferioribus ovatis cordatis subserratis petiolatis, petiolis alatis, caule paniculato hispidulo, ramulis secundis foliosis unifloris.* *Willd. sp. pl.* 3. p. 2035.

*undulatus.*

Icon. *Hoffm. phyt.* 1. t. C. f. 1. *Herm. parad.* 96.

In dry woods and old fields: New England to Carolina. *U.* Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* Flowers smaller than the preceding; rays pale violet.

38. *A. foliis oblongo-lanceolatis acuminatis sessilibus medio serratis, radicalibus oblongis cordato-sagittatis serratis petiolatis, caule ramoso glabro, squamis calycinis laxis imbricatis lanceolatis.* — *Willd. sp. pl.* 3. p. 2035.

*sagittifolius.*

In North America. *Wedemeyer. U. +.* Flowers blue, the size of the following species.

39. *A. foliis ovato-lanceolatis subserratis petiolatis glabris, radicalibus ovato-cordatis serratis scabris petiolatis, petiolis nudis, caule ramosissimo glabro, ramulis pilosis, calycibus laxis subimbricatis.* *Willd. sp. pl.* 3. p. 2035.

*paniculatus.*

Icon. *Corn. canad.* 65. *Moris. hist.* 3. s. 7. t. 22. f. 34.

In meadows, hedges, and on the borders of woods: Canada to Virginia. *U.* Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* From two to four feet high; flowers rather small, but in great abundance, changing from white to blue in the ray, and from yellow to purple or brown in the disk, which gives the whole plant a beautiful variegated appearance.

- cordifolius*. 40. *A. foliis cordatis subtus pilosis argute serratis petiolatis, petiolis alatis, caule paniculato glabriusculo, panicula divaricata, calycibus laxis subimbricatis.*—*Willd. sp. pl. 3. p. 2036.*  
In shady woods, throughout the mountains: Canada to Florida.  $\mathcal{U}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks*. Flowers small, white, or pale purple.
- corymbosus*. 41. *A. foliis ovatis argute serratis acuminatis glabriusculis, inferioribus cordatis petiolatis, petiolis nudis, caule glabro superne corymboso-fastigiato, ramis pilosis, calycibus oblongis imbricatis, squamis obtusis arcte adpressis.*—*Willd. sp. pl. 3. p. 2036.*  
In shady woods: Canada to Florida.  $\mathcal{U}$ . Aug.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert*. A foot or two high; flowers white, larger than the preceding.
- macrophyllus*. 42. *A. foliis ovatis petiolatis serratis scabris, summis ovato-cordatis sessilibus, inferioribus cordatis petiolatis, petiolis submarginatis, caule ramoso diffuso, calycibus cylindricis arcte imbricatis, squamis oblongis acutis.*—*Willd. sp. pl. 3. p. 2037.*  
In shady woods about rocks; Canada to Virginia.  $\mathcal{U}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert*. A foot or two high; flowers above the middle size, rays white, and sometimes blue.
- heterophyllus*. 43. *A. foliis glabris, caulinis ovatis subcordatis acuminatis profunde serratis apice integerrimis, ramorum ovato-oblongis subserratis, ramulorum lanceolatis minutis, sime reflexo-patentibus, caule paniculato glabro, calycibus arcte imbricatis.* *Willd. enum. 882.*  
In North America. *Willdenow. \mathcal{U}. +.*
- \*\*\* *Foliis lanceolatis ovatisque, inferioribus serratis.*
- amplexicaulis*. 44. *A. foliis ovato-oblongis acutis amplexicaulibus cordatis serratis glabris, caule paniculato glabro, ramulis 1-2-floris, calycinis squamis lanceolatis arcte imbricatis.*—*Willd. sp. pl. 3. p. 2046.*  
*A. pensylvanicus. Lam. encycl. suppl. 1. p. 498.*  
On the borders of woods, in sandy soil: New Jersey to Virginia.  $\mathcal{U}$ . Sept.—Nov. *v. v.* Flowers middle-sized, blue.
- prenanthoides*. 45. *A. foliis amplexicaulibus spathulato-lanceolatis acuminatis medio serratis basi cordatis, ramulis pilosis, calycinis squamis lanceolatis squarrosis.*—*Willd. sp. pl. 3. p. 2046.*

In Pennsylvania. *Muhlenberg*.  $\mathcal{U}$ . +. Flowers blue.

46. *A. foliis amplexicaulibus lanceolatis, inferioribus subser-  
ratis glabris, ramulorum linearibus squarrosis, caly-  
cibus squarrosis disco brevioribus, squamis lineari-cu-  
neatis.*—*Willd. enum.* 884.

*adulterinus.*

In North America. *Willdenow*.  $\mathcal{U}$ . +. Rays violet;  
disk yellowish-brown.

47. *A. foliis subamplexicaulibus lato-lanceolatis subserratis  
laevibus, caule ramosissimo glabro, ramulis multiflo-  
ris, calycinis squamis lanceolatis laxis discum subæ-  
quantibus.*—*Willd. sp. pl.* 3. p. 2046.

*laevigatus.*

In swamps and wet woods: Pennsylvania to Virginia.  $\mathcal{U}$ .  
Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert*. Flowers  
large, pale rose- or flesh-coloured, with a tinge of  
purple.

48. *A. foliis subamplexicaulibus lato-lanceolatis subserratis  
glabris, radicalibus medio serratis, caule ramosissimo  
glabro, calycinis squamis lanceolatis laxis disco brevio-  
ribus.* *Willd. sp. pl.* 3. p. 2045.

*versicolor.*

In old fields and on the borders of woods: New Jersey  
to Carolina.  $\mathcal{U}$ . Aug.—Oct. *v. v.*; *v. s. in Herb.  
Lambert*. A beautiful species; flowers large and in  
great abundance, disk yellow, rays white, changing  
to a deep violet; so that at the same time there are  
flowers of different colours on the same plant; which  
has a very pleasing effect.

49. *A. foliis subamplexicaulibus, superioribus lanceolatis  
acuminatis integerrimis, inferioribus lanceolatis basi  
angustatis serratis, ramulis virgatis, calycibus disco  
brevioribus laxis, caule glabro.* *Willd. sp. pl.* 3.  
p. 2045.

*mutabilis.*

Icon. *Pluk. alm. t.* 326. f. 1. *Herm. lugdb.* 67.

In old fields and woods: Pennsylvania to Virginia.  $\mathcal{U}$ .  
Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert*. Flowers  
middle-sized; rays deep purple, disk yellow, chang-  
ing to purple.

50. *A. foliis subamplexicaulibus remotis oblongis integerrimis  
lucidis, radicalibus subserratis, ramis simplicibus  
unifloris, calycibus imbricatis, foliolis subcuneiformi-  
bus acutis apice incrassatis, caule glabro angulato.*—  
*Willd. sp. pl.* 3. p. 2044.

*laevis.*

In woods and on the sides of ponds and ditches: New  
York to Virginia.  $\mathcal{U}$ . Sept.—Nov. *v. v.* Rays  
blueish-purple.

- concinus.* 51. *A. foliis lanceolatis subamplexicaulibus inferioribus subserratis glabris, caule simplici apice paniculato, calycibus arcte imbricatis.* Willd. enum. 884.  
In fields and woods: New York and Pennsylvania.  $\mathcal{V}$ .  
Sept.—Nov. *v. v.*; *v. s.* in *Herb. Lambert.* Leaves resembling those of *Phlox maculata*; rays blueish-purple.
- puniceus.* 52. *A. foliis amplexicaulibus lanceolatis serratis scabriusculis, ramis paniculatis, calycibus laxis discum superantibus, foliolis lineari-lanceolatis subaequalibus, caule hispido.* Willd. sp. pl. 3. p. 2040.  
Icon. *Herm. lugdb.* 651.  
*a. A. septenpedalis, caulibus saturate purpureis.* Ait. kew. 3. p. 208.  
*A. amoenus.* Lam. encycl. 1. p. 306.
- rufescens.*  $\beta$ . *A. octopedalis, caulibus e viridi-rufescentibus.* Ait. l. c.  
*A. hispidus.* Lam. encycl. 1. p. 307.  
On the banks of rivers and ditches, particularly near salt-water: Canada to Carolina, and in the range of mountains, about lakes.  $\mathcal{V}$ . Sept.—Nov. *v. v.*; *v. s.* in *Herb. Banks. et Lambert.* From three to ten feet high; flowers large, purple or blue.
- floribundus.* 53. *A. foliis subamplexicaulibus lanceolatis, inferioribus serratis, caule glabro, ramis corymbosis, ramulis multifloris pilosis, calycinis squamis laxis lanceolatis imbricatis.* Willd. sp. pl. 3. p. 2048.  
In North America. Willdenow.  $\mathcal{V}$ . +. Resembles the following species.
- novi belgii.* 54. *A. foliis subamplexicaulibus lanceolatis glabris margine scabris, inferioribus subserratis, ramis subdivisis, calycibus laxo-imbricatis, foliolis lineari-lanceolatis, caule tereti glabro.* Willd. sp. pl. 3. p. 2048.  
Icon. *Herm. lugdb.* 69.  
In hedges and old fields: New England to Virginia.  $\mathcal{V}$ .  
Aug.—Oct. *v. v.*; *v. s.* in *Herb. Lambert.* Flowers middle-sized, pale purple.
- bellidiflorus.* 55. *A. foliis amplexicaulibus angusto-lanceolatis supra scabris, inferioribus subserratis, caule ramosissimo, calycis squamis lanceolatis patentibus.* Willd. enum. 886.  
In North America. Willdenow.  $\mathcal{V}$ . +. Ray pale red, disk yellow, changing to brown.
- spectabilis.* 56. *A. foliis lanceolatis scabriusculis subamplexicaulibus, inferioribus medio serratis, ramis corymbosis, foliolis*

calycinis laxis foliaceis subcuneiformibus acutiusculis squarrosis. *Willd. sp. pl. 3. p. 2048.*

In low meadows, on the sides of woods: Pennsylvania to Virginia.  $\gamma$ . Aug.—Nov. *v. v.*; *v. s. in Herb. Lambert.* About two feet high; flowers large, blue.

57. A. foliis oblongo-lanceolatis acuminatis sessilibus glabris margine scabris, inferioribus serratis, ramis corymbosis glabris, ramulis unifloris, calycinis squamis lanceolatis acuminatis patentibus.—*Willd. sp. pl. 3. p. 2049.*

In low grounds and on the banks of ditches: New York to Virginia.  $\gamma$ . Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* About three feet high; flowers large, blue.

58. A. foliis sessilibus serratis glabris spathulato-lanceolatis basi attenuatis et margine utroque latere deflexis, ramis divaricatis, calycibus laxis, foliolis lanceolato-linearibus subæqualibus glabris.—*Willd. sp. pl. 3. p. 2049.*

In low overflowed grounds: New York to Virginia; rare.  $\gamma$ . Oct. Nov. *v. v.* Flowers below the middle size; rays pale blue.

59. A. foliis subamplexicaulibus oblongo-lanceolatis acuminatis serratis glabris, caule pyramidato-ramoso, ramis axillaribus racemifloris folio vix longioribus, pedunculis tomentosis nudis, calycibus laxis subæqualibus disco brevioribus.—*Herb. Banks. mss.*

In Canada.  $\gamma$ . Oct. Nov. *v. s. in Herb. Banks.* Flowers above the middle size; rays pale purple.

60. A. foliis lato-lanceolatis inferne attenuatis integris superne inæqualiter serratis longissime acuminatis, caule simplici flexuoso anguloso, panicula corymbosa divaricato-dichotoma, calycinis foliolis laxis linearibus disco brevioribus.—*Mich. fl. amer. 2. p. 109.*

$\alpha$ . A. caule altiore, panicula multiflora foliosa.

A. latifolius. *Herb. Banks. et Lambert.*

$\beta$ . A. caule pumilo, corymbo paucifloro nudo vix foliis altiore.

In Canada and on the Allegany mountains, in rocky shady situations.  $\beta$ . On the highest mountains of Virginia and Carolina.  $\gamma$ . Aug.—Oct. *v. v.* About a foot or more high; flowers middle-sized; rays white.

61. A. foliis oblongis 3-nerviis basi angustatis acutis, superioribus sessilibus subintegerrimis, inferioribus petiolatis serratis, caule simplici apice corymboso, calyci-

*serotinus.*

*tardiflorus.*

*blandus.*

*acuminatus.*

*elator.*

*pumilus.*

*conyzoides.*

bus cylindricis squarrosis, radiis 5. brevissimis.—

*Willd. sp. pl. 3. p. 2043.*

*A. marylandicus. Mich. fl. amer. 2. p. 108.*

*Conyza asteroides. Sp. pl. 1206.*

In fields and woods: Pennsylvania to Carolina.  $\mathcal{A}$ . Aug.

—Oct. *v. v.* About a foot high; flowers small; rays only five, white.

- peregrinus.* 62. *A. foliis sessilibus remotis oblongo-lanceolatis sensim acutis glabris, caule erecto subsimplici glabro superne birto summitate 1—3-floro, calycinis squamis lanceolato-linearibus villosis acutissimis laxis longitudine disci, radiis numerosis.—Herb. Banks. mss.*

On the north-west coast: Unalashka. *D. Nelson. \mathcal{A}. v. s. in Herb. Banks.* Flowers large, violet.

- Radula.* 63. *A. foliis lanceolatis serratis acuminatis rugosis scaberrimis, caule erecto angulato simplici, corymbo terminali, calycibus imbricatis, foliolis lanceolatis obtusiusculis subsquarrosis.—Willd. sp. pl. 3. p. 2044.*

In Nova Scotia and on the high mountains of New York and Pennsylvania.  $\mathcal{A}$ . Sept.—Nov. *v. v. ; v. s. in Herb. Banks. et Lambert.* Flowers middle size; rays short, white.

- strictus.* 64. *A. foliis sessilibus angusto-lanceolatis serratis scabris, caule superne uno aut paucifloro, calycinis squamis imbricatis adpressis oblongis acutis discum subæquantibus.—Herb. Banks. mss.*

*A. biflorus. Mich. fl. amer. 2. p. 114?*

In Labrador, at Hudson's Bay, and on high mountains in Pennsylvania.  $\mathcal{A}$ . Sept. Oct. *v. v. ; v. s. in Herb. Banks.* From four inches to a span high; flowers middle-sized; rays pale violet, disk brownish-yellow.

- Tradesonti.* 65. *A. foliis lanceolatis serratis sessilibus glabris, ramis virgatis, calycibus imbricatis, caule tereti glabro. Willd. sp. pl. 3. p. 2047.*

*A. vimineus. Lam. encycl. 1. p. 306.*

In hedges and dry swamps; frequent: Canada to Virginia.  $\mathcal{A}$ . Aug.—Oct. *v. v. ; v. s. in Herb. Lambert.* Three or four feet high; flowers very small; rays white, and sometimes pale purple.

- recurvatus.* 66. *A. foliis sessilibus angusto-lanceolatis basi attenuatis, inferioribus medio serratis, caule ramoso glabro recurvato, calycinis squamis laxis imbricatis lineari-lanceolatis subæqualibus.—Willd. sp. pl. 3. p. 2047.*

*A. salicifolius. Lam. encycl. 1. p. 306.*

In fields and on road sides: New England to Pennsylvania.  $\mathcal{A}$ . Sept.—Nov. *v. v.* Resembles the preceding; flowers pale blue.

67. *A. foliis linearilanceolatis acuminatis margine scabris, infimis subserratis, caule paniculato, ramulis unifloris, calycibus laxe imbricatis, foliolis lanceolatis.* *Willd. enum.* 886.

*eminens.*

In North America. *Willdenow.*  $\mathcal{A}$ . Sept.—Nov. *v. s.* in *Herb. Lambert.* Flowers of middle size; rays pale lilac, disk yellow, changing to red.

68. *A. foliis linearilanceolatis acuminatis margine scabris, infimis subserratis, caulibus subreflexis, rameis patentissimis, caule laxo apice paniculato, calycibus imbricatis, foliolis lanceolatis acutis apice reflexis.* *Willd. enum.* 886.

*laxus.*

In low sandy fields: New Jersey to Virginia.  $\mathcal{A}$ . Sept.—Nov. *v. v.* Rays white; disk yellow.

69. *A. foliis lanceolatis acuminatis margine scabris, caulibus apice serratis, rameis integerrimis, caule glaberrimo apice paniculato, calycibus laxe imbricatis, foliolis linearisubulatis.* *Willd. enum.* 887.

*simplex.*

In North America. *Willdenow.*  $\mathcal{A}$ . +. Rays white, disk yellow.

70. *A. foliis linearibus integerrimis, radicalibus oblongis subserratis, caule ramosissimo pubescente, calycibus laxe imbricatis.* *Willd. enum.* 888.

*polyphyllus.*

In North America. *Willdenow.*  $\mathcal{A}$ . +. Rays white, disk yellow, changing to red or brown.

71. *A. foliis lanceolato-linearibus sessilibus glabris, infimis subserratis, ramulorum lanceolatis, caule paniculato glabro, ramis virgatis, calycibus imbricatis.* *Willd. sp. pl.* 3. p. 2050.

*junceus.*

In swamps and ditches: Pennsylvania to Virginia.  $\mathcal{A}$ . Aug.—Oct. *v. v.* From four to six feet high; flowers flesh-coloured.

72. *A. foliis linearilanceolatis sessilibus integerrimis glabris, infimis lanceolatis subserratis, caule ramoso diffuso glabriusculo, calycibus imbricatis, foliolis lanceolatis subpatulis.*—*Willd. sp. pl.* 3. p. 2050.

*lanceolatus.*

In North America. *Willdenow.*  $\mathcal{A}$ . Aug.—Nov. +. Resembles the preceding; flowers smaller, rays white, changing to a pale violet.

73. *A. foliis linearibus acuminatis integerrimis, inferioribus* *dracunculoides.*

lineari-lanceolatis subserratis, ramis corymbosis, calycibus imbricatis, caule glabriusculo. *Willd. sp. pl. 3. p. 2050.*

*A. artemisiflorus. Lam. encycl. suppl. 1. p. 500.*

In low grounds and on sides of ditches: New Jersey to Carolina.  $\mathcal{U}$ . Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* About four feet or less high; flowers about half the size of No. 71, rays white.

*fragilis.*

74. *A. foliis linearibus acuminatis integerrimis, radicalibus oblongis serratis, ramis corymboso-paniculatis, calycibus imbricatis squamis adpressis, caule glabriusculo. Willd. sp. pl. 3. p. 2051.*

In North America. *Muhlenberg. \mathcal{U}. v. s. in Herb. Lambert.* About two feet high; flowers white, smaller than the preceding. This and the three preceding species are very nearly allied to one another, so much so that it is difficult to find sufficient characters to distinguish them, though their general appearance and the size of the flowers separate them at first sight.

*miser.*

75. *A. foliis sessilibus lanceolatis serratis glabris, calycibus imbricatis, foliolis acutis, disco radii æquali, caule villosiusculo. Willd. sp. pl. 3. p. 2051.*

In old barren fields: Canada and New England.  $\mathcal{U}$ . Aug.—Oct. *v. v.*; *v. s. in Herb. Lambert.*

*divergens.*

76. *A. foliis elliptico-lanceolatis serratis glabris, caulibus lineari-lanceolatis elongatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In old fields and barren woods: New York to Carolina.  $\mathcal{U}$ . Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* From three to five feet high; flowers small; rays white, disk reddish-brown.

*diffusus.*

77. *A. foliis elliptico-lanceolatis serratis glabris proportionatis, ramis patentibus, calycibus imbricatis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In fields and hedges; frequent: Canada to Carolina.  $\mathcal{U}$ . Sept.—Nov. *v. v.*; *v. s. in Herb. Lambert.* Flowers white, small.

*pendulus.*

78. *A. foliis elliptico-lanceolatis serratis glabris, ramulorum remotiusculis, ramis divaricatissimis pendulis, caule pubescente. Willd. sp. pl. 3. p. 2052.*

In old fields; common.  $\mathcal{U}$ . Oct. Nov. *v. v.*; *v. s. in Herb. Lambert.* Resembles the preceding; but the

stem  
the d

637

1. D. herb  
calyci  
rosis.

In open  
is.

cult.

The

rous

Caulis e

alter

basi

sa, s

bus n

mulo

piose

tus:

capu

lance

aristi

favul

It appr

t. 16

t. 4.

gnos

obcu

ribu

63

1. B. cau

acu

Taget

Taget

Dysc

On t

sip

ye

stem forms a loose panicle with pendulous branches; the disk turns brown.

637. DONIA. *Ait. kew. ed. 2. t. 4. p. 82.*

1. D. herbacea; foliis oblongis amplexicaulibus serratis, calycinis squamis apice filiformibus revolutis-squarrosis.

*squarrosa.*

In open prairies, on the banks of the Missouri. *M. Lewis.* 2. Aug. Sept. *v. s. in Herb. Lewis.; v. v. cult.* Flowers yellow, resembling those of *Inula*. The whole plant is viscous, and has a strong resiniferous or balsamic scent.

*Caulis* erectus, teres, albidus, corymboso-ramosus. *Rami* alterni, angulati, apice uni- aut triflori. *Folia* alterna, basi dilatata, amplexicaulia, oblonga, acuta aut obtusa, serrata, glabra, utrinque squamulis punctiformibus resiniferis obsita. *Flores* 1—3. in summitate ramulorum, corymbosi, flavi, ante explicationem copiose resiniferi. *Calyx* hemisphaericus, arcte imbricatus: *Squamis* apice filiformibus, revolutis et quasi caput *Medusæ* referentibus. *Flosculi* radii lineari-lanceolatae, acutae. *Semina* oblongo-obovata. *Pappus*: aristis 2—4. deciduis. *Receptaculum* planum, nudum, favulosum.

It approaches near to *Aster glutinosus* *Cav. ic. 2. p. 53. t. 168.* which is the *Donia glutinosa* *Ait. kew. ed. 2. t. 4. p. 82.* which I distinguish by the following diagnosis: *Donia glutinosa*: frutescens; foliis oblongo-obcuneatis sessilibus serratis, calycinis squamis linearibus erectis.

638. BOEBERA. *Willd. sp. pl. 3. p. 2125.*

1. B. caule paniculato, foliis oppositis subbipinnatis glabris acutis.—*Willd. sp. pl. 3. p. 2125.*

*chrysanthemoides.*

*Tagetes* papposa. *Mich. fl. amer. 2. p. 132.*

*Tagetes* pumila. *Hort. pisan.*

*Dyssodia glandulosa.* *Cav. demonstr. bot. p. 202.*

On the overflowed banks of the Missouri and Mississippi. ☉. Aug. Sept. *v. s.* Flowers small, golden-yellow.

639. ACTINELLA. *Pers. syn. 2. p. 469.*Actinea. *Juss. in annal. mus. 2. p. 425.*

lanata.

1. A. undique lanato-tomentosa; foliis linearibus superne pinnatifidis, pedunculis elongatis unifloris, radiis bidentatis, seminibus glabris 5-gonis.

On the high lands of the Koooskoosky. *M. Lewis. 2.*  
June, July. *v. s. in Herb. Lewis.* Flowers orange-yellow. It resembles in habit Jussieu's *Actinea*, in *Annal. du mus. 2. t. 61. f. 2.*

*Planta omnibus partibus tomento albo lanato tecta. Caulis ramosus, teres. Rami alterni, superne subdivisi. Ramuli uniflori. Folia caulina alterna, linearia, superne dilatato-pinnatifida, dentata; ramea linearia, integra. Pedunculi terminales, elongati, superne incrassati. Flores aurantiaci, magnitudine Tagetidis erectæ. Calyx oblongus, simplex, polyphyllus: foliola 12—14. lineari-lanceolata, acuta. Corollulæ radii 12—14. oblongæ, bidentatæ, nervosæ: disci tubulosæ, concolores. Pappus: paleis 4—6. scariosis, albidis, acutis, interdum laceris. Semina prismatico-oblonga, 5-gona.*

640. HELENIUM. *Gen. pl. 1299.*

autumnale.

1. H. foliis lanceolatis serratis subdecurrentibus, caule superne corymboso, corollulis disci 5-fidis: radii planis reflexis.—*Willd. sp. pl. 3. p. 2120.*

pubescens.

Icon. *Pluk. amalth. t. 372. f. 4. Corn. canad. 63.*

- β. H. foliis pubescentibus. *Willd. sp. pl. 3. p. 2121.*

On the banks of rivers, ponds, and ditches: Canada to Carolina. *2.* Oct. Nov. *v. v.* About two feet high; flowers bright yellow.

canaliculatum.

2. H. foliis lanceolatis serratis subdecurrentibus, caulibus simplicibus, corollulis disci 5-fidis: radii canaliculatis. *Lamarck in journ. hist. nat. 213. t. 35.*

quadridentatum.

3. H. foliis lato-decurrentibus, inferioribus subpinnatifidis, superioribus lanceolatis integerrimis glabris, corollulis disci 4-dentatis.—*Willd. sp. pl. 3. p. 2121.*

*Rudbeckia alata. Jacq. ic. rar. t. 593.*

Icon. *Labillard. in act. soc. hist. nat. par. 1. t. 4.*

On the banks of the Mississippi. *2.* July, Aug. *v. v.* From three to four feet high; flowers smaller than the preceding.

1. B. foliis integerrimis ovatis  
p. 2162.

*Matricaria*

*Chrysanthemum*

Icon. *L'Her.*

On the bank

nois. *2.*

disk yellow

2. B. foliis inferne  
latis, semi-

bus, aristatis

*Willd. sp.*

Icon. *L'Her.*

On the bank

ginia. *2.*

ceding ver-

## 642. S

1. S. foliis sessilibus  
tis triandris

Icon. *L'Her.*

On the north

*v. s. in H.*

## 643.

1. P. foliis oppositis  
corymbosis

p. 2221.

Icon. *Pluk.*

In North A

be the sa

chaux de

## 6

1. E. erecta,  
tenuatis

calycinis

p. 2217.

*Verbesina*

641. BOLTONIA. *Gen. pl.* 1309.

1. B. foliis integerrimis, floribus longe pedunculatis, seminibus ovalibus glabris submuticis.—*Willd. sp. pl.* 3. p. 2162.

asteroides

*Matricaria asteroides. Linn. mant.* 116.

*Chrysanthemum carolinianum. Walt. fl. car.* 204.

Icon. *L'Herit. sert. angl. t.* 25. *ined.*

On the banks of ponds and swamps: Carolina and Illinois. *fl.* Aug.—Oct. *v. s.* Rays flesh-coloured; disk yellow.

2. B. foliis inferioribus serratis, floribus breviter pedunculatis, seminibus oboordatis conspicue alatis pubescentibus, aristis pappi duabus ipsorum longitudine.—*Willd. sp. pl.* 3. p. 2163.

glastifolia.

Icon. *L'Herit. sert. angl. t.* 26. *ined.*

On the banks of rivers and ponds. Pennsylvania to Virginia. *fl.* July, Aug. *v. v.* Resembles the preceding very much.

642. SIEGESBECKIA. *Gen. pl.* 1320.

1. S. foliis sessilibus ovatis dentatis, floribus disci tridentatis triandris. *Willd. sp. pl.* 3. p. 2220.

flosculosa.

Icon. *L'Herit. stirp. t.* 19.

On the north-west coast. *M. Lewis.* ☉. July, Aug. *v. s. in Herb. Lewis.* Flowers yellow.

643. PHÆTHUSA. *Gen. pl.* 1319.

1. P. foliis oppositis ovatis acuminatis serratis triplinerviis, corymbo terminali brachiato.—*Willd. sp. pl.* 3. p. 2221.

americana.

Icon. *Pluk. mant. t.* 342.

In North America. *fl.* +. I strongly suspect this to be the same with *Verbesina Siegesbeckia*, although Michaux declares it to be different.

644. ECLIPTA. *Gen. pl.* 1316.

1. E. erecta, dichotoma, strigosa; foliis lanceolatis basi attenuatis rariter serratis, pedunculis geminis elongatis, calycinis foliolis ovatis acuminatis.—*Willd. sp. pl.* 3. p. 2217.

erecta.

*Verbesina alba. Sp. pl.* 1272.

*Cotula alba*. *Syst. nat.* 2. p. 564.

Icon. *Dill. elth.* t. 113. f. 137. *Pluk. alm.* t. 109. f. 1.  
*Moris. hist.* 3. s. 6. t. 13. f. 16.

In dry gravelly soil: Virginia to Florida. ☉. June, July.  
v. v. Flowers small, white.

*procumbens*. 2. *E. procumbente-assurgens*; foliis longo-lanceolatis inferne angustatis rariter subserratis, pedunculis longiusculis, calycinis foliolis acute-lanceolatis, flosculis 4-fidis.—*Mich. fl. amer.* 2. p. 129.

In Lower Carolina. ☉. July, Aug. v. s. Flowers small, white.

*brachypoda*. 3. *E. divaricato-prostrata*; foliis lanceolatis subserratis, pedunculis solitariis geminisque brevibus, calycinis foliolis ovali-lanceolatis, flosculis 5-fidis.—*Mich. fl. amer.* 2. p. 130.

*Amellus carolinianus*. *Walt. fl. car.* 213.

In low sandy fields: Carolina. ☉. July, Aug. v. v.

#### 645. *ANTHEMIS*. *Gen. pl.* 1312.

*arvensis*. 1. *A. receptaculis conicis, paleis lanceolatis, seminibus coronato-marginatis, foliis bipinnatis laciniis lanceolato-linearibus*. *Willd. sp. pl.* 3. p. 2180.

Icon. *Engl. bot.* 602.

In waste grounds and on road sides: Pennsylvania to Virginia. ♂. ☉. Aug. Sept. v. v. Rays white, disk yellow.

*repens*. 2. *A. caule repente, foliis ovali-lanceolatis subintegris, pedunculis terminalibus unifloris longissimis, calycibus subæqualibus 10—12-phyllis*.—*Walt. fl. car.* 211.

*Spilanthus repens*. *Mich. fl. amer.* 2. p. 131.

On overflowed banks of rivers: South Carolina. ☉. July—Sept. v. v. Flowers yellow.

#### 646. *ACHILLEA*. *Gen. pl.* 1313.

*Ptarmica*. 1. *A. foliis linearibus acuminatis æqualiter argute serratis glabris*. *Willd. sp. pl.* 3. p. 2191.

Icon. *Fl. dan.* 643. *Engl. bot.* 757.

In open dry swamps: Canada and New York. ♀. Aug. Sept. v. v. Flowers white.

*asplenifolia*. 2. *A. foliis radicalibus bipinnatifidis, caulinis incisis, laciniis ovatis serrato-mucronatis obtusis*.—*Vent. hort. cels* 95.

In Nor  
loure

3. *A. foliis*  
muc  
*Willd.*  
Icon. *J*  
In field  
v. v.  
white

4. *A. foliis*  
cinni  
sito.  
Icon. *J*  
On the  
v. s.

647. *TH*

1. *T. hirs*  
lato-  
nerv  
Polym  
Icon. *J*  
In fert  
Virg  
four

6  
1. *H. fo*  
*syn*  
Bupht  
Helia  
Rudb  
Silphi  
On th  
syl  
pla

1. *B. f*  
pe  
p.  
Icon  
C

In North America. *Bosc.*  $\mathcal{U}$ . +. Flowers rose-coloured.

3. *A. foliis bipinnatifidis pilosis lacinulis linearibus dentatis mucronatis, caulibus sulcatis.* *Smith fl. brit.* 2. p. 908. *Millefolium.*

*Willd. sp. pl.* 3. p. 2208.

*Icon. fl. dan.* 737. *Engl. bot.* 758.

In fields and on road sides; common.  $\mathcal{U}$ . June—Aug. *v. v.* Probably introduced from Europe. Flowers white or rose-coloured.

4. *A. foliis bipinnatifidis villosis, pinnis confertissimis, lacinulis lineari-lanceolatis integerrimis, corymbo composito.* *Willd. sp. pl.* 3. p. 2209. *tomentosa.*

*Icon. Bot. mag.* 498. *Gmel. it.* 1. t. 25. f. 2.

On the banks of the Kookoosky. *M. Lewis.*  $\mathcal{U}$ . June. *v. s. in Herb. Lewis.* Flowers yellow.

#### 647. TETRAGONOTHECA. *L'Herit. stirp.* p. 177.

1. *T. hirsutissima; foliis oppositis amplexicaulibus spathulato-ovatis, summis ovatis acuminatis dentatis triplinerviis.*—*Willd. sp. pl.* 3. p. 2116. *helianthoides.*

*Polymnia Tetragonotheca. Syst. veg.* 658.

*Icon. Dill. elth. t.* 283. f. 365.

In fertile soil, on the borders of woods and along hedges: Virginia to Florida.  $\mathcal{U}$ . July—Sept. *v. v.* From four to six feet high; flowers large, yellow.

#### 648. HELIOPSIS. *Pers. syn.* 2. p. 473.

1. *H. foliis oppositis ovatis serratis triplinerviis.* *Pers. syn.* 2. p. 473. *lævis.*

*Bupthalmum helianthoides. Willd. sp. pl.* 3. p. 2236.

*Helianthus lævis. Sp. pl.* 1278.

*Rudbeckia oppositifolia. Sp. pl.* 1280.

*Silphium solidaginoides. Sp. pl.* 1302.

On the banks of rivers, and in rocky shady places: Pennsylvania to Carolina.  $\mathcal{U}$ . Aug.—Oct. *v. v.* A tall plant, resembling a species of *Helianthus*.

#### 649. BUPHTHALMUM. *Gen. pl.* 1231.

1. *B. foliis oppositis cuneato-lanceolatis carnosius incanis, petiolis bidentatis, caule fruticoso.*—*Willd. sp. pl.* 3. p. 2229. *frutescens.*

*Icon. Dill. elth. t.* 28. f. 4. *Pluk alm. t.* 115. f. 4.

*Catesb. fl. car.* 1. t. 93.

On the sea-coast: Virginia to Florida.  $\frac{1}{2}$ . Aug. Sept.  
v. v. A shrub about five feet high.

*angustifoli-  
um*.

2. *B. foliis alternis linearibus superne latioribus integerrimis glabris, calycinis foliolis acute-lanceolatis.*—*Herb. Banks. mss.*

In Georgia and Florida. *Bartram*.  $\frac{1}{2}$ . v. s. in *Herb. Banks.*

*sagittatum*.

3. *B. tomentosum; foliis radicalibus longissime petiolatis oblongis sagittatis integerrimis subtrinervibus, caulinis oblongis in petiolum attenuatis, caule subtrifloro, calycinis foliolis exterioribus disco longioribus.*

On dry barren hills, in the Rocky-mountains. *M. Lewis*.  $\frac{1}{2}$ . June, July. v. s. in *Herb. Lewis*. Flowers large, yellow. The natives eat the young stems as they spring up, raw.

#### 650. AMELLUS. *Gen. pl.* 1315.

*villosus*.

1. *A. villosissimus; foliis sessilibus oblongis acuminatis integerrimis, floribus axillaribus brevi-petiolatis, radiis integris, paleis setaceis.*

On the Missouri.  $\frac{1}{2}$ . v. s. Rays yellow.

*spinulosus*.

2. *A. canescens; foliis bipinnatifidis inciso-dentatis, lacinii linearibus rigido-mucronatis, floribus lateralibus et terminalibus congestis, radiis bidentatis, paleis setaceis.*  
In open prairies on the Missouri. *M. Lewis*.  $\frac{1}{2}$ . Aug. Sept. v. s. in *Herb. Lewis*. Rays yellow.

*Tota planta rigida, scabra, cano-viridescens. Caulis ramosissimus. Rami angulosi. Ramuli laterales breves, uniflori. Folia alterna, bipinnatifida, rigida, lacinii linearibus, spinula terminatis, inferioribus inciso-dentatis. Flores laterales solitarii et terminales congesti, subcorymbosi, lutei. Calyx imbricatus: squamis exterioribus brevioribus, acutis, hirsutis; interioribus linearibus, scariosis. Corollulae radii lineari-lanceolatae, bidentatae. Receptaculum: Paleis brevibus, subulatis.*

Both species are an intermediate link between *Aster* and *Inula*. They approach the nearest to *Amellus*; but the receptacle is not, properly speaking, paleaceous, but only setaceous.

#### 651. VERBESINA. *Gen. pl.* 1317.

*virginica*.

1. *V. caule angusto alato, foliis alternis lato-lanceolatis subserratis, corymbo composito, calycibus oblongis pubescentibus.*—*Willd. sp. pl.* 3. p. 2222.

In shady woods on the mountains: Pennsylvania to Carolina.  $\mathcal{U}$ . July—Sept. *v. v.* Rays from three to four, white.

2. *V. caule alato, foliis oppositis ovato-lanceolatis utrinque Siegesbeckia.*

acuminatis acute serratis, panicula brachiata, ramulis summitate fasciculifloris.—*Willd. sp. pl. 3. p. 2224.*

*Siegesbeckia occidentalis. Sp. pl. 1269.*

In shady woods: Virginia to Carolina.  $\mathcal{U}$ . July—Sept. *v. v.* Rays from one to three, yellow. It has a strong resemblance to *Phæthus*.

3. *V. caule alato, foliis alternis lanceolatis serratis, panicula Coreopsis.*

corymbosa laxa foliosa, calycibus laxis patulis, disco subgloboso.—*Mich. fl. amer. 2. p. 134.*

*Coreopsis alternifolia. Willd. sp. pl. 3. p. 2257.*

- $\alpha$ . *V. radiata aut flosculosa luteiflora. Mich. l. c.*

*lutea.*

Icon. *Jacq. hort. vind. t. 110. Pluk. alm. t. 159. f. 3.*

- $\beta$ . *V. semper flosculosa albiflora. Mich. l. c.*

*alba.*

*Athanasia paniculata. Walt. fl. car. 201.*

In the mountains of Virginia and Carolina.  $\beta$ . On the Carolina coast.  $\mathcal{U}$ . July—Sept. *v. v.* From three to seven feet high; flowers yellow. The white variety I have only seen in the Walterian Herbarium, and I strongly suspect it to be a very distinct species.

4. *V. caule alato, foliis alternis lato-lanceolatis acutis leviter dentatis subtus albido-villosis, supra aspero-pubescentibus, pedunculis unifloris aggregatis.—Mich. fl. amer. 2. p. 135.* *helianthoides.*

In the western parts of the Allegany mountains: Tennessee and Illinois.  $\mathcal{U}$ . Aug. Sept. *v. s.* Flowers like *Helianthus*.

# 652. ZINNIA. Gen. pl. 1304.

1. *Z. floribus pedunculatis, foliis oppositis ovato-lanceolatis subpetiolatis. Willd. sp. pl. 3. p. 2139.* *multiflora.*

Icon. *Linn. dec. t. 12. Jacq. obs. 2. t. 40. Bot. mag. 149.*

On the banks of the Mississippi.  $\odot$ . July, Aug. *v. v.* Rays yellow, orange, and sometimes brick-red.

## III. FRUSTRANEA.

653. BIDENS. Gen. pl. 1267.

- cernua*. 1. B. floribus subradiatis cernuis, calyce exteriori flore longiore, foliis lanceolatis subconnatis dentatis. Willd. sp. pl. 3. p. 1716.  
Icon. Fl. dan. 841. Curtis fl. lond. 3. t. 55. Pet. hort. brit. t. 20. f. 6.
- minima*. β. B. foliis lanceolatis sessilibus, floribus seminibusque erectis. Sp. pl. 1165.  
Icon. Fl. dan. 312. Dill. in Rati syn. t. 7. f. 2.
- Coreopsis*. γ. B. foliis lanceolatis serratis oppositis amplexicaulibus. Sp. pl. 1281.  
Icon. Barrel. ic. t. 1209. Less. fl. pruss. t. 11.  
About ponds, ditches and springs: Canada to Pennsylvania. ☉. Aug. Sept. The flowers of this and all the following species are yellow, and the most of them are either without or with rays.
- chrysanthemoides*. 2. B. floribus radiatis cernuis, radio calyci subæquali triplo longiore, foliis oblongis utrinque attenuatis dentatis basi connatis. Willd. sp. pl. 3. p. 1717. Mich. fl. amer. 2. p. 136.  
Coreopsis flammula. Herb. Banks. mss.  
Coreopsis perfoliata. Walt. fl. car. 215.  
In overflowed places and about ponds: New England to Carolina. ☉. Aug.—Oct. v. v. Flowers large, bright yellow. The awns of the seeds are by two, three, or four; not always by two, as Michaux asserts.
- frondosa*. 3. B. floribus discoideis, calyce exteriori flore sexduplo longiore, foliolis basi ciliatis, foliis inferioribus pinnatis, superioribus ternatis lanceolatis serratis. Willd. sp. pl. 3. p. 1718.  
Icon. Moris. hist. 3. s. 6. t. 5. f. 21.  
In shady fertile woods and fields: Pennsylvania to Carolina. ☉. July—Oct. v. v.
- connata*. 4. B. floribus discoideis, calyce exteriori flore triplo longiore, foliis caulinis ternatis, foliolis lateralibus connatis, floralibus oblongo-lanceolatis. Willd. sp. pl. 3. p. 1718.  
In fields and woods; frequent: Canada to Carolina. ☉. July—Oct. v. v.
- pilosa*. 5. B. floribus discoideis, calyce exteriori longitudine interioris, foliis inferioribus pinnatis, superioribus ter-

natis, foliis oblongis, terminali lanceolato reliquis duplo longiore. *Willd. sp. pl. 3. p. 1720*.

Icon. *Dill. elth. t. 43. f. 51*.

In old fields and cultivated grounds: Pennsylvania to Carolina. ☉. July—Oct. *v. v.* A common weed.

6. *B. floribus subradiatis, calyce exteriori longitudine interioris, foliis bipinnatis, foliolis lanceolatis pinnatifidis. Willd. sp. pl. 3. p. 1721.*

Icon. *Herm. parad. t. 123. Moris. hist. 3. s. 6. t. 7. f. 23.*

A common weed in all old fields. ☉. July—Oct. *v. v.*

*bipinnata.*

654. COREOPSIS. *Gen. pl. 1325.*

\* *Foliis oppositis, indivisis.*

1. *C. foliis sessilibus lanceolato-linearibus integerrimis ciliatis, pedunculis elongatis nudis, seminibus orbiculatis scabris alatis apice bidentatis emarginatis.—Willd. sp. pl. 3. p. 2256.*

Icon. *Dill. elth. t. 48. f. 56. Mart. cent. 26.*

- β. *C. caule foliisque canescenti-villosis. Mich. fl. amer. 2. p. 137.*

*C. crassifolia. Willd. sp. pl. 3. p. 2256.*

In mountainous situations: Virginia and Carolina. ♀. Aug.—Oct. *v. v.* Flowers deep yellow; rays broad with four or five teeth.

2. *C. glabra; foliis petiolatis lanceolato-ovatis sensim acuminatis argute serratis, pedunculis axillaribus terminalibusque dichotome-corymbosis.*

In Carolina. *P. Miller. ♀. v. s. in Herb. Banks.* Flowers middle size. This and all the rest are of a bright yellow colour.

3. *C. foliis ovatis acuminatis serratis petiolatis triplinerviis decurrentibus.*

In Virginia. *Bartram. ♂. v. s. in Herb. Banks.*

4. *C. foliis ovatis acuminatis crenato-dentatis, dentibus mucronatis, petiolis brevibus, radiis integris, seminibus cuneato-oblongis apteris apice nudis.—Willd. sp. pl. 3. p. 2257. Mich. fl. amer. 2. p. 137.*

On the high mountains of Virginia and Carolina. ♀. July—Sept. *v. v.* A tall growing species; flowers rather small.

*lanceolata.*

*villosa.*

*arguta.*

*alata.*

*latifolia.*

\*\* *Folii oppositis, divisis.*

- aristata.* 5. *C. pubescens*; foliis quinato-pinnatis serratis, radiis integris lato-ovalibus, seminibus cuneato-obovatis bi-  
aristatis, aristis divaricatis.—*Willd. sp. pl.* 3. p. 2253.  
*C. aristosa. Mich. fl. amer.* 2. p. 140.  
In South Carolina and Illinois. ♀. Aug. Sept. v. s.  
Flowers large; rays very broad.
- trichosperma.* 6. *C. glabella*, dichotoma; foliis subquinato-pinnatis lanceolatis serratis, calycis exterioris foliolis (6) spathulatis ciliato-serratis, radiis integris, seminibus cuneatis sub-4-dentatis.—*Willd. sp. pl.* 3. p. 2252. *Mich. fl. amer.* 2. p. 139.  
In cedar-swamps: New Jersey and Carolina. ♂. Aug.—Oct. v. v. Flowers small; resembles *C. coronata*.
- auriculata.* 7. *C. pubescens*; foliis subsessilibus ovali-lanceolatis integerrimis, inferioribus ternatis, calyce exteriori profunde partito, radiis 4-dentatis, seminibus subrotundo-obovatis apice emarginato-bidentatis.—*Willd. sp. pl.* 3. p. 2256.  
Icon. *Pluk. alm. t.* 83. f. 5. & *t.* 242. f. 4.  
On the high mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- tripteris.* 8. *C. glabra*; foliis petiolatis lanceolatis integerrimis, radicalibus pinnatis, caulinis ternatis, radiis integris, seminibus obovatis apice nudis.—*Willd. sp. pl.* 3. p. 2253.  
Icon. *Moris. hist.* 3. s. 6. t. 3. f. 44.  
On high mountains: Virginia to Carolina. ♀. Aug.—Oct. v. v.
- senifolia.* 9. *C. subpubescens*; foliis sessilibus integerrimis ternatis, radiis integris, seminibus cuneato-oblongis.—*Willd. sp. pl.* 3. p. 2254.  
*C. major. Walt. fl. car.* 214.  
*C. stellata. Herb. Banks. mss.*  
On dry stony hills, in the mountains of Virginia and Carolina. ♀. Aug.—Oct. v. v.
- aurea.* 10. *C. foliis serratis*, radicalibus 3-partitis, caulinis trifidis integrisve lanceolato-linearibus. *Willd. sp. pl.* 3. p. 2253.  
In North America. ♀. +.
- trifida.* 11. *C. glabra*; foliis trifidis subulatis fasciculatis, pedunculis terminalibus unifloris, radiis 3-fidis, caule subflexuoso.—*Lam. encycl. suppl.* 2. p. 353.

Icon.  
In N  
C.  
12. C. fol  
arib  
sp.  
C. ver  
Icon.  
On hig  
Aug  
13. C. foli  
arib  
sp.  
C. del  
Icon.  
On hig  
—C  
14. C. gla  
sup  
cul  
In low  
sour  
15. C. foli  
flori  
In Geo  
16. C. cau  
rum  
gust  
gina  
C. gla  
In sha  
na.  
17. C. fol  
dec  
alte  
In No  
18. C. fol  
obl  
pl.  
In Ca  
Ba

Icon. *Lam. illustr. t. 704. f. 2.*

In North America. *Lamarck. Ȳ. +.* Resembles  
*C. verticillata.*

12. *C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco concolore. Willd. sp. pl. 3. p. 2252.*

*tenuifolia.*

*C. verticillata. Lam. encycl. 2. p. 108.*

Icon. *Pluk. mant. t. 344. f. 4.*

On high dry mountain lands: Virginia and Carolina. *Ȳ.*  
Aug.—Oct. *v. v.*

13. *C. foliis verticillatis ternis quinisve pinnatis, pinnis linearibus tripartitis indivisisque, disco discolore. Willd. sp. pl. 3. p. 2151.*

*verticillata.*

*C. delphinifolia. Lam. encycl. 2. p. 108.*

Icon. *Bot. mag. 156. Ehret pict. t. 9. f. 1.*

On high mountains: Virginia and Carolina. *Ȳ.* Aug.  
—Oct. *v. v.*

14. *C. glabra; foliis petiolatis, inferioribus bipinnatifidis, superioribus lineari-3-partitis, calycibus simpliciusculis, seminibus nudis.—Willd. sp. pl. 3. p. 2253.*

*mitis.*

In low grounds of Carolina. *Michaux.* On the Missouri. *M. Lewis. ♂.* July, Aug. *v. v.*

\*\*\* *Foliis alternis.*

15. *C. foliis ovato-lanceolatis acutis denticulatis subhirtis, floribus corymboso-paniculatis.*

*acuta.*

In Georgia. *Bartram. ♂. v. s. in Herb. Banks.*

16. *C. caule glabro superne nudiusculo dichotomo, foliis plerumque alternis indivisis integerrimis in petiolum angustatis, seminibus obovatis bisetosis scabris, ala marginali fimbriato-lacera.—Mich. fl. amer. 2. p. 137.*

*dichotoma.*

*C. gladiata. Walt. fl. car. 215.*

In shady sphagnous swamps of New Jersey and Carolina. ☉. July—Oct. *v. v.*

17. *C. foliis ellipticis acuminatis serratis petiolatis venosis decurrentibus, inferioribus verticillatis, superioribus alternis. Willd. sp. pl. 3. p. 2258.*

*procera.*

In North America. *Aiton. Ȳ. +.*

18. *C. foliis lineari-lanceolatis integerrimis lævibus, radiis oblongis trifidis, lacinia media majore.—Willd. sp. pl. 3. p. 2257.*

*angustifolia.*

In Carolina and Florida. *Bartram. Ȳ. v. s. in Herb. Banks.*

*aspera.*

19. *C. foliis lanceolato-linearibus asperis, superioribus alternis, inferioribus oppositis, caule unifloro.*  
In Maryland. *v. s. in Herb. Banks.*

655. HELIANTHUS. *Gen. pl.* 1322.\* *Foliis oppositis.**atrorubens.*

1. *H. totus hispidus; caule superne nudiusculo laxè paniculato, foliis spathulatis ovatis crenatis triplinerviis scabris, squamis calycinis ovato-lanceolatis longitudine disci atropurpureo.*—*Willd. sp. pl.* 3. p. 2245.  
*Icon. Dill. elth. t.* 94. f. 110. *Mart. cent. t.* 20.  
In gravelly and slate soil, in the western parts: Pennsylvania to Carolina.  $\frac{1}{2}$ . ♂. Aug. Sept. *v. v.* Rays yellow; disk dark purple.

*pubescens.*

2. *H. cano-pubescens; caule villosa, foliis sessilibus cordato-ovatis amplexicaulibus triplinerviis adpresso-subseratis, calycinis squamis lanceolatis villosis.*—*Willd. sp. pl.* 3. p. 2244.  
*H. mollis. Lam. encycl.* 3. p. 81.  
*H. canescens. Mich. fl. amer.* 2. p. 140.  
In wet meadows of Kentucky and Tennessee. ♂. Aug.—Oct. *v. s.* Both ray and disk are yellow, which is the case with all the following species.

*divaricatus.*

3. *H. caule glabro ramosissimo, foliis suboppositis sessilibus lanceolato-ovatis trinerviis, panicula trichotoma gracili parviflora.*—*Willd. sp. pl.* 3. p. 2244.  
*Icon. Moris. hist.* 3. s. 6. t. 7. f. 66. *mala.*  
On the borders of woods and in hedges: Canada to Pennsylvania.  $\frac{1}{2}$ . Aug.—Nov. *v. v.* About five or six feet high; flowers smaller than any other species here enumerated.

*frondosus.*

4. *H. caule inferne glabro, foliis ovatis argute serratis, pedunculis scabris, calycibus squarrosis undulatis frondosis ciliatis, radiis 8-floris.*—*Willd. sp. pl.* 3. p. 2241.  
In Canada.  $\frac{1}{2}$ . +. About four feet high; resembles *H. decapetalus* and *multiflorus* in several respects, but is distinct.

*trachelifolius.*

5. *H. foliis ovato-lanceolatis acuminatis serratis triplinerviis utrinque scaberrimis, calycinis squamis linearilanceolatis ciliatis, exterioribus longioribus.* *Willd. sp. pl.* 3. p. 2241.  
*H. Gigas. Mich. fl. amer.* 2. p. 141.

In woods and dry swamps: Canada to Carolina. *W.*  
Aug.—Oct. *v. v.* Resembles *H. decapetalus*. About  
three feet high.

6. *H. glaberrimus*; caule paniculato, ramis summitate  
paucifloris, foliis subsessilibus longissime-lanceolatis  
triplinervibus integerrimis, inferioribus serratis; caly-  
cinis squamis ovatis acutis, exterioribus linearibus di-  
varicatis. *longifolius.*

In the western parts of Georgia. *Lyon. W.* Aug.—  
Oct. *v. v.* From four to seven feet high; stem dark  
purple and very smooth; flowers middle size.

**\*\* Foliis superioribus alternis.**

7. *H. foliis alternis lanceolatis serratis scabris obsolete tri-  
plinervibus utrinque attenuatis subsessilibus basi cilia-  
tis, calycinis squamis lanceolatis ciliatis. Willd. sp.  
pl. 3. p. 2242. giganteus.*

In dry swamps and on mountain meadows: Canada to  
Carolina. *W.* Aug.—Oct. *v. v.* A tall, rough-  
looking plant; horses are fond of its young shoots.  
Stems rough and green.

8. *H. foliis alternis ovato-lanceolatis serratis scabris tripli-  
nervibus, apice attenuatis petiolatis, petiolis ciliatis,  
calycinis squamis lanceolatis ciliatis. Willd. sp. pl. 3.  
p. 2243. altissimus.*

Icon. *Jacq. hort. vind. t. 160.*

In copses and mountain meadows: Pennsylvania to Caro-  
lina. *W.* July—Sept. *v. v.* Resembles the pre-  
ceding; stems smooth and purple; the chaff of the  
receptacle is green in this species, but black in the pre-  
ceding.

9. *H. foliis ovatis acuminatis serratis triplinervibus subtns  
scabris, calycinis squamis lineari-lanceolatis basi cili-  
atis. Willd. sp. pl. 3. p. 2242. strumosus.*

Icon. *Bocc. sic. t. 27. f. 4.*

In Canada and New England. *W.* Aug.—Oct. *v. v.*

10. *H. caule debili prostrato, foliis lanceolatis acuminatis  
scabris serratis triplinervibus, superioribus integerrimis,  
calycinis squamis lanceolatis ciliatis.—Willd. sp. pl. 3.  
p. 2242. prostratus.*

In North America. *Willdenow. W. +.*

11. *H. foliis ovatis acuminatis remote serratis triplinervibus  
scabris, calycinis squamis lanceolatis subæqualibus decapetalus.*

subciliatis, radiis denis duodenisve.—*Willd. sp. pl.* 3. p. 2241.

Icon. *Rob. ic.* 235.

In dry stony soil, in woods, and on road sides: Canada to Virginia.  $\mathcal{U}$ . Aug.—Oct. *v. v.* About three or four feet high. Resembles the following.

- multiflorus*. 12. *H. foliis triplinerviis scabris, inferioribus cordatis, superioribus ovatis, radio multifloro, calycinis squamis lanceolatis. Willd. sp. pl.* 3. p. 2239.

Icon. *Bot. mag.* 227. *Pluk. phytogr. t.* 159. f. 2.

In dry mountain woods: Pennsylvania to Carolina.  $\mathcal{U}$ . July—Sept. *v. v.*

- mollis*. 13. *H. foliis ovatis acuminatis triplinerviis adpresso-serratis supra scabris, subtus cano-pubescentibus mollissimis, calycinis squamis lanceolatis adpressis. Willd. enum.* 920. *Willd. sp. pl.* 3. p. 2240.

*H. tomentosus. Mich. fl. amer.* 2. p. 141.

In exsiccated swamps: Pennsylvania and Virginia.  $\mathcal{U}$ . July—Oct. *v. v.* Leaves very rough on the upper surface, and soft underneath.

- macrophyllus*. 14. *H. foliis ovatis acuminatis triplinerviis serratis supra scabris, subtus cano-pubescentibus, calycinis squamis linearibus squarrosis. Willd. hort. berol.* 70. cum *icone*.

In Pennsylvania and Virginia, on the borders of woods.  $\mathcal{U}$ . Aug.—Oct. *v. v.*

- angustifolius*. 15. *H. caulibus gracilibus subunifloris, foliis linearibus margine revolutis asperis.—Willd. sp. pl.* 3. p. 2244.

*Rudbeckia angustifolia. Willd. sp. pl.* 3. p. 2250.

Icon. *Mill. ic. t.* 224. f. 2.

In cedar-swamps: New Jersey to Florida.  $\mathcal{U}$ . Sept.—Nov. *v. v.* Rays deep yellow, disk brown.

# 656. GALARDIA. *Gen. pl.* 1323.

*bicolor*.

1. *G. caule ramoso, foliis amplexicaulibus lanceolatis inciso-dentatis obtusis, paleis pappi integerrimis aristatis.—Willd. sp. pl.* 3. p. 2245.

*G. lanceolata. Mich. fl. amer.* 2. p. 142.

*Gaillarda pulchella. Fougereux act. par.* 1785.

*Colonnea pulcherrima. Buchoz. ic. t.* 126.

*Virgilia helioides. L'Herit. monog. Smith exot. bot.* p. 71. t. 37.

*Leysera caroliniana*. *Walt. fl. car.* 211. *secundum Herb.*  
Icon. *Lam. illustr.* t. 708.

In dry sandy soil: Carolina to Florida. ☉. July, Aug.  
*v. v.* About two feet high; flowers large and very  
showy; rays orange with red towards the base, disk  
dark purple with orange.

2. *G. caule simplicissimo unifloro, foliis radicalibus obovatis, caulinis linearibus, paleis pappi laceris.* *Willd. sp. pl.* 3. p. 2246.

In open swamps of Carolina and Florida. *Michaux.*

+

3. *G. hirsutissima, scabra; caule ramoso, foliis lineari-lanceolatis sessilibus, paleis pappi (5—7) ovato-lanceolatis longissime aristatis.*

On dry hills on the Rocky-mountains. *M. Lewis.* ♂.  
*v. s. in Herb. Lewis.* Flowers orange-coloured.

*Planta hirsutissima. Caulis erectus, teres, ramosus. Rami uniflori. Folia caulina alterna, longe-lineari-lanceolata, sessilia, scabra, hirsutissima. Calyx subimbricatus, polyphyllus: foliolis lineari-oblongis, acutissimis, disco duplo longioribus, margine coloratis. Corollula: Radii circiter 12. obcuneatæ, 3-fidæ: laciniis oblongis, subæqualibus, obtusiusculis, Disci tubulosæ, 5-fidæ: laciniis extus purpurascensibus hirsutissimis. Receptaculum in ambitu subpaleaceum, centro setosum. Pappus: paleis 5—7. scariosis, ovatis, longissime-setaceo-aristatis.*

*fimbriata.*

*aristata.*

# 657. RUDBECKIA. *Gen. pl.* 1324.

1. *R. aspera; foliis inferioribus lato-ovatis basi attenuatis remote dentatis, caulinis lanceolato-ovatis utrinque acuminatis subintegerrimis, radiis longissimis dependentibus bifidis.*—*Willd. sp. pl.* 3. p. 2249.

Icon. *Bot. mag.* 2. *Catesb. car.* 2. t. 59. *Pluk. alm.* t. 21. f. 1.

In the mountains: Virginia to Florida. ♀. Aug.—Oct. *v. v.* A highly ornamental perennial; flowers large, rays purple, disk brown.

*purpurea.*

2. *R. glabra; foliis oblongo-lanceolatis cordatis amplexicaulibus, inferioribus serratis, disco cylindraceo-conico.*—*Willd. sp. pl.* 3. p. 2249.

*R. amplexicaulis. Vahl in act. soc. nat. scrut. haf.* 2. p. 29. t. 4.

*amplexifolia.*

- R. perfoliata.* Cav. ic. 3. p. 27. t. 252.  
Icon. Jacq. ic. rar. 3. t. 592.  
In Lower Louisiana, on the banks of the Mississippi,  
O. July, Aug. v. v. Flowers deep yellow.
- laevigata.* 3. *R. undique glaberrima*; caule laevigato paniculato, ramis corymbosis, pedunculis elongatis unifloris, foliis ovato-lanceolatis utrinque acuminatis triplinerviis integerrimis aut dente uno alterove instructis laevigatis, calycinis foliolis lanceolatis longitudine radii.  
In Georgia. Lyon. *Ų. v. s. in Herb. Lambert.* Rays pale yellow, short.
- discolor.* 4. *R. ramis corymbosis unifloris, pedunculis nudis elongatis, foliis lanceolatis strigoso-pilosis subintegerrimis, calycinis foliolis ovatis acutis, petalis lanceolatis integerrimis discoloribus longitudine calycis.*  
In Florida. Bartram. *Ų. v. s. in Herb. Banks.* Flowers small, rays yellow, and deep orange or purple underneath.
- spathulata.* 4. *R. gracilis, pubescens*; caulibus unifloris, foliis obovato-spathulatis integerrimis, calyce patulo imbricato, radiis tridentatis.—Willd. *sp. pl.* 3. p. 2249.  
*R. gracilis.* Herb. Banks. *mss.*  
In the mountains of Carolina. Michaux. In Florida, Bartram. *Ų. July, Aug. v. s. in Herb. Banks.*
- aristata.* 5. *R. caule hispido, ramis elongatis corymbosis unifloris, foliis lanceolato-oblongis serratis hispidis, disco subhemisphaerico, paleis pappi subulatis aristatis.*—Herb. Banks. *mss.*  
In South Carolina. v. s. in Herb. Banks. Flowers small, deep yellow.
- fulgida.* 6. *R. caule hispido, ramis virgatis elongatis unifloris, foliis oblongo-lanceolatis denticulatis hispidis basi angustatis subcordatis, calyce foliaceo radium subaequante, disco hemisphaerico, paleis lanceolatis.*—Willd. *sp. pl.* 3. p. 2248.  
In mountain meadows and woods: Pennsylvania to Carolina. *Ų. July—Oct. v. v. Rays dark orange-coloured, disk deep purple.*
- hirta.* 7. *R. hirsutissima*; caulibus virgatis subramosis unifloris, pedunculo nudo, foliis ovato-spathulatis triplinerviis serratis hirtis, calyce foliaceo radium subaequante, disco conico, paleis lanceolatis.—Willd. *sp. pl.* 3. p. 2248.  
Icon. Dill. *eth. t.* 218. f. 285. Pluk. *atm. t.* 242. f. 2.

- In the m  
Sept.  
disk dan
8. *R. caule* i  
dunculi  
tubercu  
ovatis a  
In Georgi
9. *R. hispido*  
multiflor  
tis serra  
aribus  
p. 2247  
Icon. Plu  
In the Vin  
Sept.  
small, p
10. *R. brevi* p  
mis erec  
tis subs  
incumb  
*R. triloba*  
In mounta  
Sept.  
which i  
only a v
11. *R. caule* s  
lis elon  
bus, ca  
lindrac  
*R. colum*  
On the M  
recepta  
other
12. *R. foliis*  
ovatis,  
journ.  
Icon. M  
On the  
ginia.  
feet h
13. *R. foliis*  
riorib

In the mountains: Virginia to Florida. ♂. July—Sept. *v. v.* Resembles the preceding; rays yellow, disk dark brown.

8. *R. caule inferne hispido, superne glabro nudiusculo, pedunculis longissimis unifloris, foliis ovatis attenuatis tuberculatis hispidis, calycibus imbricatis, squamis ovatis acuminatis ciliatis.*

*Radula.*

In Georgia. *Bartram. ♂. v. s. in Herb. Banks.*

9. *R. hispido-pilosa; caule paniculato, ramis divaricatis multifloris foliosis, foliis lanceolatis utrinque acuminatis serratis, inferioribus trilobis, calycinis foliolis linearibus deflexis longitudine radii.—Willd. sp. pl. 3. p. 2247.*

*triloba.*

Icon. *Pluk. alm. 22. f. 2.*

In the Virginia and Carolina mountains. ♀. ♂. Aug. Sept. *v. v.* About four or five feet high; flowers small, pale yellow.

10. *R. brevi pubescentia subtomentosa; caule ramoso, ramis erectis multifloris, foliis oblongo-lanceolatis acutis subserratis, inferioribus trilobis, calycinis foliolis incumbens radio brevioribus.*

*R. triloba β. Mich. fl. amer. 2. p. 144.*

In mountain meadows: Virginia and Illinois. ♀. Aug. Sept. *v. v.* Not near so high as the preceding, from which it is very distinct, though Michaux considers it only a variety.

11. *R. caule stricto simplici summitate paucifloro, pedunculis elongatis, foliis pinnatifidis incis, laciniis linearibus, calyce simplici 5-phyllo, radiis 5—8., disco cylindraceo elongato.*

*columnaris.*

*R. columnifera. Fraser catal. 1813.*

On the Missouri. *v. s.* The singular appearance of the receptacle of this plant distinguishes it from all the other known species.

12. *R. foliis inferioribus pinnatis, pinnis 3-lobis, summis ovatis, pappo crenato, caule glabro. Schrad. new. journ. 2. p. 61. Willd. enum. 921.*

*laciniata.*

Icon. *Moris. hist. 3. s. 6. t. 6 f. 53. Corn. canad. t. 179.*

On the edges of swamps and ditches: Canada to Virginia. ♀. Aug.—Oct. *v. v.* From five to ten feet high.

13. *R. foliis inferioribus pinnatis, pinnis pinnatifidis, superioribus simplicibus pinnatis, summis 3-fidis, pappo*

*digitata.*

crenato, caule laevi. *Schrad. new. journ.* 2. p. 61.  
*Willd. enum.* 921.

Icon. *Moris. hist.* 3. s. 6. t. 6. f. 54.

In the mountains of Virginia and Carolina. 4. Aug.—

Oct. v. v. Resembles the preceding.

*pinnata.*

14. *R. foliis omnibus pinnatis, pinna una alterave inferiorum bipartita, reliquis indivisis, pappo integerrimo, caule sulcato hispido. Schrad. new. journ.* 2. p. 61.  
*Willd. enum.* 921. *Mich. fl. amer.* 2. p. 144.

*R. digitata. Willd. sp. pl.* 3. p. 2247. *excl. syn. Morison. et Aiton.*

*R. odorata. Hortul.*

Icon. *Smith exot. bot.* 38. *Vent. jard. cels* 71.

In the western parts of Carolina and Georgia. 4. July

—Oct. v. v. Flowers very showy, of an anise scent; rays long, bright yellow, hanging downwards; disk ovate, purple.

#### 658. CENTAUREA. *Gen. pl.* 1331.

*Cyanus.*

1. *C. squamis calycinis serratis, foliis linearibus integerrimis, inferioribus dentatis. Smith fl. brit.* 2. p. 911.  
*Willd. sp. pl.* 3. p. 2291.

Icon. *Engl. bot.* 277. *Fl. dan.* 993.

In rye and wheat fields; rare. Brought from Europe with the grain. ☉. July, Aug. v. v. Flowers blue.

*solstitialis.*

2. *C. calycibus palmato-spinosis solitariis, spinis rectis, foliis canescentibus lineari-lanceolatis decurrentibus integerrimis, radicalibus lyratis. Willd. sp. pl.* 3. p. 2309.

Icon. *Engl. bot.* 243.

In sandy fields and woods: New Jersey: introduced from Europe. ☉. July, Aug. v. v. Flowers yellow.

1. *C. foliis ovatis, mentosissimis.*

*l. c. cum*

*Tussilago*

*Perdicium*

In sandy f

Florida.

a tinge c

1. *S. caule s*

*pinnatifid*

*subcord*

Icon. *Lin*

On the ba

cularly

From ei

all the r

2. *S. caule l*

*libus te*

*culatis.*

*S. laciniat*

*S. sinuatu*

In gravel

*rolina.*

high;

3. *S. caule*

*alterni*

*p. 233*

Icon. *Ja*

In the v

Oct.

large.

4. *S. caule*

*serrat*

- β. *S. squa*

*longi*

In the

## IV. NECESSARIA.

659. CHAPTALIA. *Vent. hort. vels 61.*

1. *C. foliis ovato-oblongis integerrimis subtus argenteo tomentosis, scapo nudo unifloro, flore nudaute.*—*Vent. l. c. cum icone.* *tomentosa.*

*Tussilago integrifolia. Mich. fl. amer. 2. p. 121.*

*Perdicium semiflosculare. Walt. fl. car. 204.*

In sandy fields and woods, in moist soil: Carolina to Florida. *℥.* May, June, *v. v.* Flowers white, with a tinge of pale purple.

660. SILPHIUM. *Gen. pl. 1334.*

1. *S. caule superne hispido, foliis radicalibus caulisque pinnatifidis, laciniis dentato-sinuatis, calycinis foliolis subcordatis acuminatis.*—*Willd. sp. pl. 3. p. 2330.* *laciniatum.*

*Icon. Linn. fl. fasc. 1. t. 3.*

On the banks of rivers in the western territories, particularly on the Mississippi. *℥.* Aug.—Oct. *v. v.* From eight to twelve feet high; flowers large, and, as all the rest of the genus, yellow.

2. *S. caule lævi, foliis caulinis sinuato-pinnatifidis, radicalibus ternatis sinuato-multifidis, floribus parvis paniculatis.*—*Willd. sp. pl. 3. p. 2331.* *compositum.*

*S. laciniatum. Walt. fl. car. 217.*

*S. sinuatum. Herb. Banks. mss.*

In gravelly woods, near the sea-coast: Virginia and Carolina. *℥.* Aug.—Oct. *v. v.* Not above two feet high; flowers small.

3. *S. caule lævi, foliis radicalibus amplis cordatis, caulinis alternis ovatis serratis scabris.*—*Willd. sp. pl. 3. p. 2331.* *terebinthina-ceum.*

*Icon. Jacq. hort. 1. t. 43.*

In the western mountains and Louisiana. *℥.* Aug.—Oct. *v. v.* About five feet high; radical leaves very large.

4. *S. caule tetragono lævi, foliis oppositis connatis ovatis serratis.*—*Willd. sp. pl. 3. p. 2331.* *perfoliatum.*

5. *S. squamis calycinis quatuor exterioribus calyce interiore longiore.* *Willd. enum. 933.* *conjunctum.*

In the Allegany mountains: Pennsylvania to Carolina.

2. July—Oct. *v. v.* A tall robust plant. Var.  $\beta$ , though considered by Willdenow as a distinct species, appears to be little more than a variety.
- connatum.* 5. *S. caule tereti hispido, foliis oppositis connatis remote serratis scabris.*—Willd. *sp. pl.* 3. p. 2332.  
 In high mountains of Virginia and Carolina. 2. Aug. Sept. *v. v.* Resembles the preceding, but is a very distinct species.
- Asteriscus.* 6. *S. caule tereti hispido, foliis oppositis alternisve oblongis acutis serratis scabris, calycibus ciliatis.*—Willd. *sp. pl.* 3. p. 2332.  
 Icon. *Dill. elth.* t. 37. f. 42.  
 In mountain meadows: Virginia and Carolina. 2. July—Sept. *v. v.*
- pumilum.* 7. *S. caule tenuiter tomentoso, foliis ovalibus leviter serratis obtusis subtomentosis, calycinis foliolis obovatis obtusis, seminibus muticis.*—Willd. *sp. pl.* 3. p. 2332.  
*S. patulum.* *Herb. Banks.*  
 In Florida. *Michaux. Bartram.* 2. *v. s. in Herb. Banks.*
- integrifolium.* 8. *S. caule tetragono aspero, foliis oppositis sessilibus oblongis integerrimis scabris, floribus paucis breviter pedunculatis.*—Willd. *sp. pl.* 3. p. 2333.  
 On the most western of the Allegany mountains and Illinois. 2. Aug.—Oct. *v. v.* About four feet high.
- laevigatum.* 9. *S. caule simplici tetragono sulcato glabro, foliis oppositis sessilibus ovatis acuminatis tenuissime serratis basi subcordatis utrinque glabris, calycinis squamis ovatis ciliatis.*  
 In Georgia. *Enslen.* 2. *v. s. in Herb. Enslen.* About two feet high; flowers in a close corymb.
- trifoliatum.* 10. *S. caule sexangulo laevi, foliis terno-verticillatis ovato-lanceolatis inaequaliter dentato-serratis scabris, superioribus sessilibus, panícula trichotoma.*—Willd. *sp. pl.* 3. p. 2333.  
*S. ternifolium.* *Mich. fl. amer.* 2. p. 146.  
 Icon. *Moris. hist.* 3. s. 6. t. 3. f. 68.  
 On the high mountains of Virginia and Carolina. 2. Sept. Oct. *v. v.* About six feet high.
- ternatum.* 11. *S. caule tereti laevi, foliis terno-verticillatis petiolatis lanceolatis subdenticulatis scabriusculis basi ciliatis, superioribus sparsis sessilibus, panícula dichotoma, calycibus ciliatis.*—Willd. *sp. pl.* 3. p. 2333.

In North  
bert.

12. *S. caule te  
ceolatis s  
tis, super  
sp. pl. 3.*

In Carolina  
Resemble  
distinguish

13. *S. caule p  
alternis c  
nibus mu  
In Georgia*

14. *S. foliis alte  
cinis obtu  
In Carolina*

15. *S. foliis alte  
usculis v  
In Florida.*

661

1. *P. viscido-  
ribus pi  
Willd. s  
Icon. Am  
In shady  
July.  
the who*

2. *P. foliis c  
bus, lo  
sp. pl. 3  
P. macula  
Icon. Pl  
f. 55.  
In the mo  
Sept.*

662.

1. *C. pumil  
tatis o  
Icon. P  
On dry  
v. v.*

In North America. *Retz.*  $\mathcal{U}$ . v. s. in *Herb. Lambert.*

12. *S. caule tereti laevi, foliis subquaterno-verticillatis lanceolatis scabris subintegerrimis subsessilibus basi ciliatis, superioribus sparsis, panicula dichotoma.*—*Willd. sp. pl.* 3. p. 2334. *atropurpureum.*

In Carolina and Georgia. *Lyon.*  $\mathcal{U}$ . Aug. Sept. v. v. Resembles the preceding; but its purple smooth stem distinguishes it at first sight.

13. *S. caule petiolisque tomentosus, ramis unifloris, foliis alternis cordatis ovatis serratis petiolatis villosis, seminibus muticis.*—*Herb. Banks. mss.* *tomentosum.*

In Georgia. *Bartram.*  $\mathcal{U}$ . v. s. in *Herb. Banks.*

14. *S. foliis alternis petiolatis cordatis sinuatis, squamis calycinis obtusis.* *Herb. Banks. mss.* *elatum.*

In Carolina.  $\mathcal{U}$ . v. s. in *Herb. Banks.*

15. *S. foliis alternis ovato-lanceolatis cordatis serratis obtusiusculis villosiusculis.* *Herb. Banks. mss.* *reticulatum.*

In Florida.  $\mathcal{U}$ . v. s. in *Herb. Banks.*

# 661. POLYMNIA. *Gen. pl.* 1335.

1. *P. viscido-villosa; foliis denticulatis acuminatis, inferioribus pinnatifidis, superioribus trilobis integrisve.*—*Willd. sp. pl.* 3. p. 2335. *canadensis.*

Icon. *Amœn. acad.* 3. t. 1. f. 5.

In shady mountains: Canada to Virginia.  $\mathcal{U}$ . June, July. v. v. Two or three feet high; flowers yellow; the whole plant has a strong balsamic scent.

2. *P. foliis oppositis trilobis acutis in petiolum decurrentibus, lobis anguloso-sinuatis, radiis elongatis.*—*Willd. sp. pl.* 3. p. 2335. *Uvedale.*

*P. maculata. Cav. ic.* 3. t. 227.

Icon. *Pluk. alm.* t. 83. f. 3. *Meris. hist.* 3. s. 6. t. 7. f. 55. *Trew pict. suppl.* 112.

In the mountains of Virginia and Carolina.  $\mathcal{U}$ . July—Sept. v. v. From four to eight feet high.

# 662. CHRYSOGONUM. *Gen. pl.* 1337.

1. *C. pumilum, lanato-villosum; foliis in petiolum angustatis ovalibus dentatis.*—*Willd. sp. pl.* 3. p. 2337. *virginianum.*

Icon. *Pluk. alm.* t. 83. f. 4. & t. 242. f. 3.

On dry hills: Virginia and Carolina.  $\mathcal{U}$ . May, June. v. v. Not above a span high; flowers yellow.

663. BALTIMORA. *Gen. pl.* 1333.*recta.*

1. *B. scabra*; caule dichotomo, foliis oppositis ovatis acuminatis serratis petiolatis.—*Willd. sp. pl.* 3. p. 2329. *Icon. Pluk. mant. t.* 342. f. 3.  
In Maryland, near Baltimore. *Sp. pl.* ☉. July. *v. v. cult.* Flowers small, yellow. I have never seen this plant in any part of the United States, and suppose it to be only an inhabitant of Vera Cruz.

664. PARTHENIUM. *Gen. pl.* 1428.*integrifolium.*

1. *P. foliis oblongis inæqualiter dentatis asperis, superioribus amplexicaulibus.*—*Willd. sp. pl.* 3. p. 2385.  
*Icon. Willd. hort. berol. t.* 4. *Dill. elth. t.* 225. f. 292. *Pluk. alm. t.* 53. f. 5. ♂ *t.* 219. f. 1. *Lam. illustr. t.* 766.  
In dry places on the mountains of Virginia and Carolina. *℥.* Sept. Oct. *v. v.* About a foot high; flowers white.

665. IVA. *Gen. pl.* 1429.*ciliata.*

1. *I. caule herbaceo, foliis lanceolato-ovatis subserratis, spica confertiuscula, bracteis lanceolatis acuminatis petiolisque longe ciliatis.*—*Willd. sp. pl.* 3. p. 2386.  
In natural meadows: Kentucky and Illinois. ☉. July, Aug. *v. s.* About two feet high.

*imbricata.*

2. *I. fruticosa, glabra; foliis lineari-lanceolatis cuneatis integerrimis glabris, calycibus imbricatis.*—*Willd. sp. pl.* 3. p. 2387. *Walt fl. car.* 232.  
*I. integrifolia. Herb. Banks. mss.*  
On the sea-coast of Carolina and Georgia. *℥.* *v. s. in Herb. Walter.*

*frutescens.*

3. *I. fruticosa; foliis lanceolatis punctato-scabris profunde serratis, glomerulis florum depresso-globosis.*—*Willd. sp. pl.* 3. p. 2387.  
*Icon. Lam. encycl.* 766. *Pluk. alm. t.* 27. f. 1.  
On the sea-coast: New England to Florida. *℥.* Aug. Sept. *v. v.* A shrub about four feet high.

666. AMBROSIA. *Gen. pl.* 1427.*integrifolia.*

1. *A. foliis ovatis sessilibus acuminatis serratis utrinque hispidis basi ciliatis, racemis terminalibus plerumque ternis.*—*Willd. sp. pl.* 4. p. 375.

On the banks of ponds and ditches: Pennsylvania and Virginia. ☉. July—Sept. *v. v.* The flowers of this genus are very inconspicuous.

2. *A. hirsutissima*; foliis arcte sessilibus simplicibus oblongis supra basin latescentem utrinque unidentatis, fructu tetragono infra apicem quadrispinoso. *Mich. fl. amer.* 2. p. 182.

*bidentata.*

In the western parts of the Allegany mountains ☉. July—Sept. *v. v.*

3. *A. hirsuta, aspera*; foliis 3-lobis serratis, lobis ovali-lanceolatis acuminatis, fructu infra apicem 6-spinoso.—*Willd. sp. pl.* 4. p. 375.

*trifida.*

Icon. *Moris. hist.* 3. s. 6. t. 1. f. 4.

On the banks of rivers and ditches: Pennsylvania to Carolina. ☉. Aug. Sept. *v. v.* From five to eight feet high.

4. *A. foliis bipinnatifidis glabriusculis, petiolis longe ciliatis, racemis terminalibus paniculatis, caule virgato.* *Willd. sp. pl.* 4. p. 376.

*elatior.*

In old fields: Canada to Carolina. ☉. June—Aug. *v. v.*

5. *A. foliis bipinnatifidis subtus canescentibus summis pinnatifidis, racemis terminalibus, ramis fastigiatis.* *Willd. sp. pl.* 4. p. 376.

*artemisiifolia.*

In fields and waste grounds: Pennsylvania to Carolina. ☉. Aug. Sept. *v. v.*

6. *A. foliis glabris bipinnatifidis summis pinnatifidis, racemis terminalibus solitariis, ramis fastigiatis.* *Willd. sp. pl.* 4. p. 376.

*paniculata.*

Icon. *Pluk. alm. t.* 10. f. 5.

In old fields and on road sides: Canada to Florida. ☉. July—Sept. *v. v.*

7. *A. foliis caulinis pinnatifidis subdentatis petiolatis, rameis summis lanceolatis sessilibus, petiolis longe ciliatis, racemis terminalibus solitariis, caule paniculato.* *Willd. sp. pl.* 4. p. 378.

*heterophylla.*

On the banks of rivers and ditches: near Philadelphia. ☉. July—Sept. *v. v.*

# 667. XANTHIUM. *Gen. pl.* 1426.

1. *X. caule inermi ramoso, foliis cordatis lobatis serratis scabris basi trinerviis, fructibus ellipticis pubescentibus setis rigidis uncinatis.*—*Willd. sp. pl.* 4. p. 373.

*Strumarium.*

Icon. *Fl. dan.* 970.

On road sides, among rubbish and cultivated grounds :  
New England to Pennsylvania. ☉. Aug. Sept. *v. v.*  
The fruit resembles the common *Burdock*.

## V. SEGREGATA.

668. ELEPHANTOPUS. *Gen. pl.* 1347.

- carolinianus*. 1. *E. foliis radicalibus caulinisque oblongis basi angustatis utrinque pilosis, caule simplici erecto piloso.*—*Willd. sp. pl.* 3. p. 2390.  
*E. scaber. Mich. fl. amer.* 2. p. 148.  
Icon. *Dill. elth. t.* 106. f. 126. *Sloan. hist.* 1. t. 156. f. 1.  
In shady woods : Virginia to Florida. ♀. Aug.—Oct. *v. v.* Flowers red.
- tomentosus*. 2. *E. foliis radicalibus caulinisque ovatis basi attenuatis utrinque tomentosis, caule simplici tomentoso.*—*Willd. sp. pl.* 3. p. 2390.  
On dry sunny hills : Lower Virginia and Carolina. ♀. Aug.—Oct. *v. v.* Flowers deep red.

669. T

670. CA

\*\* Eca

671. OF

672. N

673. A

674. E

675. M

676. C

VOL. II

## XVIII. GYNANDRIA.

### I. MONANDRIA.

\* *Calyculatæ; filamentum basi styli insertum.*

669. **THALIA.** *Cal.* minimus, triphyllus. *Cor.* 5-petala: duo interiora minora. *Anthera* simplex, ovata, filamento proprio depresso innixa. *Stylus* simplex, ab anthera deflexus. *Stigma* perforatum ringens. *Bacca* 1-sperma.
670. **CANNA.** *Cal.* 3-phyllus. *Cor.* 6-partita, erecta. *Nectar.* bipartitum revolutum. *Styl.* lanceolatus, corollæ adnatus. *Caps.* muricata, 3-locularis, poly-sperma.

\*\* *Ecalyculatæ; filamentum nullum; anthera apice styli inserta, biloba.*

671. **ORCHIS.** *Cor.* ringens: petalo superiore fornicato. *Labellum* dilatatum, basi subtus calcaratum aut saccatum. *Anthera* terminalis, adnata.
672. **NEOTTIA.** *Cor.* ringens: petalis lateralibus exterioribus antice circa basin labelli ventricosum connexis. *Anthera* stylo parallela, postice inserta.
673. **ARETHUSA.** *Cor.* subringens: petalis subconniventibus. *Labellum* ecalcaratum. *Anthera* opercularis, persistens. *Pollen* pulvereo-granulatum.
674. **EPIPACTIS.** *Cor.* erecto-patens. *Labellum* ecalcaratum, planum, pendulum, apice bifidum. *Anthera* opercularis, persistens.
675. **MALAXIS.** *Cor.* patens, resupinata. *Labellum* concavo-patulum, adscendens. *Anthera* opercularis.
676. **CYMBIDIUM.** *Cor.* erecta vel patens. *Labellum* basi concavum, ecalcaratum, lamina patula. *Anthera* opercularis, decidua. *Pollen* globosum.

677. CALYPSO. *Cor.* 6-petala: 5. sursum expansa. *Labellum* sacciforme, dorso basis 2-calcaratum. *Stylus* late alatus. *Stigma* operculo 2-lobo absconditum. *Pollen* lamellis 4. solidis.

## II. DIANDRIA.

678. CYPRIPIEDUM. *Cor.* 4-petala, patens. *Labellum* ventricosum-inflatum, obliquum. *Stylus* superne lobo petaloideo appendiculatus.

## III. HEXANDRIA.

679. APISTOLOCHIA. *Cor.* 1-petala, tubuloso-ligulata, basi ventricosa. *Styl.* O. *Caps.* infera, 6-locularis.

## IV. DODECANDRIA.

680. ASARUM. *Cor.* tubuloso-campanulata, 3-4-fida. *Antheræ* mediis filamentis adnatæ. *Caps.* infera, coronata, 6-locularis.

## I. MONANDRIA.

669. THALIA. *Gen. pl.* 10.

*dealbata.*

1. T. panicula albedo-pulverulenta, spathis bifloris, foliis ovatis apice revolutis.—*Roscoe in linn. trans.* 8. p. 340. *Icon. In a single plate of J. Fraser.*  
In impenetrable swamps of South Carolina. 24. Aug. Sept. *v. v. s. fl.*; *v. s. c. fl. in Herb. Lambert.* A tall and handsome plant; flowers small, purple. J. Millington, Esq. of South Carolina, is, to my knowledge, the first discoverer of this elegant plant. It was introduced into the English gardens by the Messrs. Frasers.

## 670. CANNA. Gen. pl. 1.

1. *C. foliis petiolatis lanceolatis costatis, corollæ limbo interiore trifido: laciniis strictis emarginatis.*—*Willd. sp. pl. 1. p. 3?* *angustifolia.*

*C. glauca. Walt. fl. car. 59.*

In deep and almost impregnable swamps of Georgia. *Enslen. 2. July, Aug. v. s. in Herb. Enslen.* Flowers scarlet. It approaches near to *C. indica*, and probably may be a new species, if not the true *C. angustifolia*.

2. *C. foliis sessilibus lanceolatis glaucis, corollæ limbo interiore trifido: laciniis flaccidis.*—*Roscoe in linn. trans. 8. p. 339.* *flaccida.*

*C. glauca β. flaccida. Willd. sp. pl. 1. p. 4.*

*C. angustifolia. Walt. fl. car. 59.*

*Icon. Salisb. stirp. rar. 3. t. 2. Thoms. bot. t. 1. Redouté liliac. 107.*

In swamps of South Carolina. *2. Aug. Sept. v. v.* Flowers large, yellow.

## 671. ORCHIS. Swartz act. holm. 1800, p. 205.

\* *Radicibus testiculatis.*

1. *O. labello oblongo-lanceolato pinnatim ciliato petalis duplo longiore, cornu germine longiore.* *Willd. sp. pl. 4. p. 8.* *ciliaris.*

*Icon. Bot. rep. 42.*

In old meadows and exsiccated swamps: Canada to Carolina. *2. June, July. v. v.* Flowers a bright golden-yellow, very handsome.

2. *O. labello lanceolato ciliato longitudine petali supremi, cornu germine longiore.* *Willd. sp. pl. 4. p. 9.* *Elephariglotis.*

*Orchis testiculata floribus niveis, &c. Clayt. no. 560.*

In low swampy bottoms: New Jersey to Carolina. *2. June, July. v. v.* Flowers clear white; resembles the preceding very much.

3. *O. labello 3-partito, laciniis capillaceo-multifidis, petalis obtusis, cornu filiformi-clavato adscendente germinis longitudine.* *Willd. sp. pl. 4. p. 39.* *psycodes.*

In old fields, on the side of swamps: Canada to Virginia. *2. June—Aug. v. s.* Flowers yellow.

4. *O. labello oblongo pinnatim-ciliato, petalis rotundatis, binis lateralibus dentatis, cornu germine brevior.* *Willd. sp. pl. 4. p. 9. Mich. fl. amer. 2. p. 156.* *cristata.*

In exsiccated swamps and mountain meadows: Pennsylvania to Carolina. *Ų.* June, July. *v. v.* In colour and shape resembling No. 1; but the flowers are smaller and closer, in a short spike.

*lacera.*

5. *O. labello 3-partito, laciniis subdigitato-filiformibus, cornu germen subæquante, floribus alternis.*—*Mich. fl. amer. 2. p. 156.*

*O. radice palmata, foliis lillii, &c. Clayt. n. 644.*

In low meadows: Pennsylvania to Virginia. *Ų.* July. *v. v.* Flowers greenish-white. Roots not known.

*clavellata.*

6. *O. labello ovato integerrimo, petalis conniventibus, cornu clavato longitudine germinis, caule unifoliato, Willd. sp. pl. 4. p. 10. Mich. fl. amer. 2. p. 155.*

In Carolina. *Michaux. Ų. +.* A loose spike, with few flowers; bractes very short.

*quinqusetata.*

7. *O. labello 5-partito: laciniis setaceis, cornu germine duplo longiore.*—*Mich. fl. amer. 2. p. 155.*

In sandy low fields, on the side of swamps: Virginia and Carolina. *Ų.* June, July. *v. v.* A loose spike, with alternate and distant flowers; bractes acuminate; leaves ovate, acute.

*discolor.*

8. *O. labello petalis longiore tripartito: laciniis lateralibus brevibus acutis, intermedia producta spathulata, cornu filiformi germine subduplo-longiore, folio unico radicali ovato-cordato.*

*Orchis floribus sparsis, nectario pedunculum superante, &c. Gron. virg. 137.*

In pine-barrens: New Jersey to South Carolina. *Ų.* July. *v. v.*

*Bulbis testiculatis, ovatis, acutis. Foliū unicum, ovatum, petiolatum, plicato-nervosum, glabrum, subtus purpurascens. Petiolus margine plicato-undulatus. Scapus pedalis, nudus, vagina una alterave instructus, teres, glaber. Flores laxè spicati, brevissime pedicellati, nutantes, tristi- seu exviridi-purpurascens. Petala oblonga, acutiuscula, flexuosa. Labello petalis longius, margine subundatum. Cornu adscendens, filiforme, flexuosum, purpureum.*

**\*\* Radicibus palmatis.**

*flava.*

9. *O. labello trifido integerrimo: lacinia media majore, cornu filiformi longitudine germinis, spica elongata congesta, bracteis flore longioribus.*—*Willd. sp. pl. 4. p. 33.*

In Virginia.  $\frac{1}{2}$ . July. *v. s. in Herb. Gronov.* Flowers yellow.

10. O. labello lineari apice tridentato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore sesquilongioribus. *Willd. sp. pl. 4. p. 33.*

*viridis.*

*Satyrium viride. Sp. pl. 1357.*

Icon. *Fl. dan. 77. Hall. helv. t. 26.*

In dry grassy places, on the high mountains of Virginia and Carolina.  $\frac{1}{2}$ . June, July. *v. v.* Not above three inches high; flower small, greenish-white.

11. O. labello lanceolato apice tridentato, petalis obtusis, cornu filiformi apice clavato-ascendente germine longiore. *Willd. sp. pl. 4. p. 41.*

*tridentata.*

On the high mountains of Pennsylvania and Virginia.  $\frac{1}{2}$ . June, July. *v. v.* Spike consisting of but a few small white flowers.

12. O. labello lineari apice emarginato obsolete 3-dentato, petalis subconniventibus, lateralibus ovatis latioribus, cornu obtuso scrotiforme, bracteis flore duplo longioribus patentibus. *Willd. sp. pl. 4. p. 34.*

*bracteata.*

Icon. *Parad. lond. 110.*

O. foliis duobus inferioribus ovatis, superioribus, &c. *Gron. virg. 136.*

In low shady places: Pennsylvania to Virginia.  $\frac{1}{2}$ . July, Aug. *v. v.* About a span high; flowers green.

13. O. labello oblongo lanceolato indiviso, petalis erectis, cornu obtuso scrotiformi, germinibus pedicellatis, scapo nudo. *Willd. sp. pl. 4. p. 34.*

*obsoleta.*

*Serapias foliis ovatis radicalibus, scapo nudo multifloro. Gron. virg. 137.*

In low shady places: New England to Virginia; rare.  $\frac{1}{2}$ . July, Aug. *v. v.* The bractes are very short.

\*\*\* *Radicibus fasciculatis.*

14. O. labello ovato basi dentato, petalis patentibus, cornu subulato germinis longitudine. *Willd. sp. pl. 4. p. 35.*

*fuscescens.*

Icon. *Gmel. fl. sib. 1. p. 20 t. 4. f. 2.*

On grassy hills: Pennsylvania.  $\frac{1}{2}$ . July. *v. v.* Flowers in long spikes, dark or brownish yellow; bractes very long, acuminate, and longer than the flowers.

15. O. labello obovato indiviso crenato retuso, petalis rectis, lateralibus longioribus, cornu clavato germine brevior, bracteis flore longioribus, caule aphylo. *Willd. sp. pl. 4. p. 36.*

*spectabilis.*

*O. humilis. Mich. fl. amer. 2. p. 155.*

In shady, rocky situations: New York to Carolina; particularly on the mountains.  $\mathcal{U}$ . May, June. *v. v.* About a span high; flowers large, purple and white, very handsome.

- orbiculata.* 16. *O. labello lineari integerrimo obtusiusculo, petalis 3. superioribus conniventibus, 2. lateralibus patentibus basi obliquis, cornu germine longiore, scapo basi diphylo, foliis planis orbiculatis.*  
In shady beech-woods: on the mountains of Pennsylvania and Virginia.  $\mathcal{U}$ . July, Aug. *v. v.* Resembles *O. bifolia*. Two leaves of a fleshy texture are spread flat on the ground, between which rises the stalk about a foot or eighteen inches high, which bears a loose spike of greenish-white flowers. It is known in the mountains by the name of *Heal-all*.
- dilatata.* 17. *O. labello lineari integerrimo obtusiusculo, basi subrotundato-dilatato, cornu longitudine labelli: germine brevior, bracteis longitudine florum, caule folioso.*  
*O. acuta. Herb. Banks. mss.*  
In Labrador. *Colmaster. \mathcal{U}. v. s. in Herb. Dickson.*
- virescens.* 18. *O. labello lanceolato crenato, petalis conniventibus, cornu obtuso scrotiformi, bracteis flore longioribus. Willd. sp. pl. 4. p. 37.*  
In boggy meadows: Pennsylvania,  $\mathcal{U}$ . July. *v. s.* From a foot to eighteen inches high; flowers green.
- hyperborea.* 19. *O. labello lanceolato magnitudine petalorum patentium, cornu subulato germine brevior, spica ovata, bracteis longitudine florum.—Willd. sp. pl. 4. p. 37.*  
Icon. *Retz. obs. bot. 4. t. 3.*  
In Hudson's Bay, near Albany. *Hutchinson. \mathcal{U}. June, July. v. s. in Herb. Banks.* Flowers greenish-yellow.
- obtusata.* 20. *O. labello lineari integerrimo cornu longiore, cornu longitudine germinis, folio unico radicali subcuneiformi-obtuso.—Herb. Banks. mss.*  
On Hudson's Bay, near Fort Albany. *Hutchinson. \mathcal{U}. v. s. in Herb. Banks.* A small species, with a few flowers only.
- rotundifolia.* 21. *O. labello 3-fido; intermedio bifido, cornu germine brevior, foliis ovali-subrotundis.—Herb. Banks. mss.*  
On Hudson's Bay.  $\mathcal{U}$ . *v. s. in Herb. Banks.*
- fimbriata.* 22. *O. labello tripartito, laciniis cuneiformibus ciliato-fimbriatis, petalis lateralibus ovatis dentatis, cornu fili-*

formi clavato germine longiore. *Willd. sp. pl. 4. p. 39.*

In low meadows and on high mountain bogs: Canada to Pennsylvania. *℥. July. v. v.* From a foot to two high; flowers purple, very handsome.

23. O. labello tripartito, laciniis cuneiformibus inciso-dentatis, intermedia emarginata, petalis lateralibus obtusis subdentatis, cornu subulato adscendente germinis longitudine. *Willd. sp. pl. 4. p. 40.*

*incisa.*

In low meadows: New York to Virginia. *℥. July. v. v.* Resembles the preceding; flowers smaller and paler in colour. In the mountain-meadows it grows, like the following, to a very great height, sometimes exceeding three and four feet.

24. O. labello tripartito, laciniis cuneiformibus dentatis, intermedio bilobo, cornu filiformi apice clavato adscendente germine longiore. *Willd. sp. pl. 4. p. 40.*

*fissa.*

In mountain meadows: Pennsylvania to Virginia. *℥. July, Aug. v. v.* Resembles the preceding; flowers dark purple.

672. NEOTTIA. *Swartz. act. holm. 1800. p. 224.*

1. N. foliis radicalibus linearibus, scapo vaginato, floribus spiraliter-secundis, labio trifido; medio majori crenulato.—*Willd. sp. pl. 4. p. 74.*

*tortilis.*

Satyrium spirale. *Swartz. prodr. 118.*

Ophrys æstivalis. *Mich. fl. amer. 2. p. 157.*

Limodorum præcox. *Walt. fl. car. 221.*

In low spongy meadows: Pennsylvania to Carolina. *℥. June, July. v. v.* From ten inches to a foot high; flowers white. This and the following species are known by the name of *Ladies Truces*.

2. N. foliis lanceolatis trinerviis, caule vaginato, spica oblonga densiflora, floribus recurvato-cernuis, labello oblongo integerrimo acuto.—*Willd. sp. pl. 4. p. 75.*

*cernua.*

Ophrys cernua. *Sp. pl. 1340.*

Limodorum autumnale. *Walt. fl. car. 221.*

In grassy and springy places: Canada to Carolina. *℥. July, Aug. v. v.* Resembles the preceding, but the spikes are closer and the flowers double the size.

3. N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, floribus secundis, labello petalisque lanceolatis. *Willd. sp. pl. 4. p. 76.*

*repens*

Satyrium repens. *Sp. pl. 1339.*

Icon. Jacq. austr. 369. Hall. helv. t. 22. Com. hort. t. 35.

In rocky, shady pine-woods, on the high mountains of Virginia.  $\frac{1}{2}$ . July. *v. v.* Not above three inches high; stem creeping; leaves delicately veined; flowers white.

*pubescens.*

4. *N. foliis radicalibus ovatis petiolatis reticulatis, scapo vaginato floribusque pubescentibus, labello ovato acuminato, petalis ovatis. Willd. sp. pl. 4. p. 76.*

Satyrium repens. Mich. fl. amer. 2. p. 137.

In shady and rocky situations: Canada to Florida.  $\frac{1}{2}$ . July. *v. v.* Resembles the preceding; is more robust, and the leaves more distinctly and handsomely variegated with white veins. This plant has lately made a great noise among the country people, as infallibly curing the bite of a mad dog.

## 673. ARETHUSA. Swartz. act. holm. 1800. p. 230.

*bulbosa.*

1. *A. aphylla; radice globosa, scapo vaginato unifloro, calyce laciniis superioribus incurvatis, labello subcrenulato.—Willd. sp. pl. 4. p. 80.*

Icon. Lam. illustr. t. 729. f. 1. Pluk. mant. t. 348. f. 7.

In sphagnous swamps: Canada to Carolina.  $\frac{1}{2}$ . June. *v. v.* Flowers large, purple, sweet-scented.

*ophioglossoides.*

2. *A. radice fibrosa, scapo dissite bifoliato 1—2-floro, foliis ovali-lanceolatis, labello fimbriato.—Willd. sp. pl. 4. p. 80.*

Icon. Lam. illustr. t. 729. f. 2.

In bogs and sphagnous swamps: Canada to Carolina.  $\frac{1}{2}$ . June, July. *v. v.* Flowers nearly the size of the preceding, purple, sometimes white.

*divaricata.*

3. *A. radice subpalmata, scapo remote bifoliato unifloro, foliis oblongis obtusiusculis, petalis exterioribus ascendentibus longo-linearibus, labello eroso-subcrenulato.—Willd. sp. pl. 4. p. 81.*

Icon. Lam. illustr. t. 729. f. 3. Catesb. car. 1. t. 58.

In swamps near the sea-coast: Virginia to Florida.  $\frac{1}{2}$ . July. *v. v.* Flowers larger than any of the preceding, purple.

*pendula.*

4. *A. radice tuberosa, caule folioso summitate subtrifloro, foliis ovatis alternis, floribus longo-pedunculatis alternis, labello integro.—Willd. sp. pl. 4. p. 82.*

*A. trianthophoros. Swartz. act. holm. 1800. p. 230.*

*A. parviflora*. *Mich. fl. amer.* 2. p. 160.

Icon. *Pluk. mant.* t. 348. f. 6.

In shady woods, round the roots of beech-trees: New York to Kentucky.  $\mathcal{U}$ . July. *v. v.* Not above three or four inches high; flowers pale purple, small.

5. *A. foliis quinis oblongo-lanceolatis verticillatis*, caule unifloro, petalis tribus exterioribus longissimis linearibus, interioribus lanceolatis, labello trilobo, lacinia media undulata. *Willd. sp. pl.* 4. p. 81.

*verticillata*.

Icon. *Pluk. mant.* t. 348. f. 1. *bona*.

In shady woods, near the banks of rivulets: Pennsylvania to Virginia.  $\mathcal{U}$ . July. *v. v.* A very scarce and handsome species; flowers, the size and shape of *A. divaricata*, of a dull purple mixed with yellow. It has sometimes two or three flowers.

6. *A. foliis verticillatis oblongis acuminatis*, caule unifloro, flore subsessili, petalis tribus exterioribus linearibus, interioribus brevioribus oblongis obtusis, labello petalis consimile.

*medeoloides*.

In shady woods on the Blue-mountains. *Vanvleck*.  $\mathcal{U}$ . July. *v. s.* in *Herb. Vanvleck*. Resembles the preceding in general habit.

674. *EPIPACTIS*. *Swartz. act. holm.* 1800. p. 231.

1. *E. foliis radicalibus ovatis acutis*, scapo aphylo pubescente laxiflora, floribus pedicellatis, labello bilobo vix petalis conniventibus longiore, capsulis clavatis, radice palmato.

*pubescens*.

*Ophrys pubera*. *Mich. fl. amer.* 2. p. 158.

*Arethusa racemosa*. *Walt. fl. car.* 222.

*Serapias foliis ovatis radicalibus*, scapo nudo multifloro. *Gron. fl. virg.* 137.

In pine-barrens of Carolina and Georgia.  $\mathcal{U}$ . June. *v. s.* in *Herb. Gronov. et Walter*. Flowers small, greenish-white.

2. *E. caule bifolio*, foliis oppositis cordato-subrotundis acutis, spica parviflora, labello oblongo apice dilatato obtuse bilobo, germine subgloboso, radice fibrosa.—*Willd. sp. pl.* 4. p. 88.

*convallarioides*.

*Ophrys cordata*. *Mich. fl. amer.* 2. p. 158.

In shady cedar-swamps and sphagnous woods: Canada to New Jersey; rare.  $\mathcal{U}$ . May. *v. v.* A very small plant; flowers dark-brown, mixed with green.

675. MALAXIS. Swartz. act. holm. 1800. p. 233.
- ophioglossoides.* 1. *M. folio solitario ovato amplexicauli, scapo pentagono, labello apice bifido.* Willd. sp. pl. 4. p. 90.  
*M. unifolia.* Mich. fl. amer. 2. p. 157.  
 In shady woods: Pennsylvania to Florida. ♀. May, June. v. v.
- liliifolia.* 2. *M. foliis binis ovato-lanceolatis, scapo triquetro, petalis interioribus filiformibus reflexis discoloribus, labello concavo obovato apice acuto.*—Willd. sp. pl. 4. p. 92.  
*Ophrys trifolia.* Walt. fl. car. 221.  
*Ophrys scapo nudo, foliis radicalibus, &c.* Gron. virg. p. 138.  
*Epidendrum caule erecto simplicissimo nudo, racemo simplici erecto.* Gron. virg. p. 140.  
 Icon. Bot. rep. 65.  
 In shady wet woods, round the roots of trees: Canada to Virginia. ♀. June, July. v. v. The three outside petals are sharp-pointed, white; the two inside ones thread-shaped, yellowish, and reflex; the lower lip broad-obovate with an abrupt point of a pale olive colour.
676. CYMBIDIUM. Swartz. nov. act. ups. 6. p. 70.
- pulchellum.* 1. *C. foliis radicalibus ensiformibus nervosis, scapo paucifloro, labello erecto basi attenuato, lamina expansa, disco concavo barbato.*—Willd. sp. pl. 4. p. 105.  
*Limodorum tuberosum.* Syst. veg. 680. Mich. fl. amer. 2. p. 159.  
*Limodorum pulchellum.* Salisb. prodr. 8.  
*Ophrys barbata.* Walt. fl. car. 221.  
 Icon. Bot. mag. 116.  
 In sphagnous swamps: Canada to Florida. ♀. July. v. v. Flowers purple, very handsome.
- verecundum.* 2. *C. foliis radicalibus lato-lanceolatis plicato-nervosis, scapo multifloro, petalis interioribus conniventibus, labello ventricosum, lamina emarginata crispa sulcata.* Willd. sp. pl. 4. p. 105.  
*Limodorum verecundum.* Salisb. prodr. 9.  
*Limodorum tuberosum.* Jacq. collect. 4. p. 108.  
*Limodorum altum.* Jacq. ic. rar. 3. t. 602.  
*Limodorum trifidum.* Mich. fl. amer. 2. p. 159.  
 Icon. Mart. cent. t. 50. Mill. ic. 145.

In Carolina and Florida. *W.* July, Aug. *v. v.* Resembles the preceding, but is larger.

3. *C. foliis radicalibus geminis ovatis multinerviis, scapo simplici vaginato erecto, petalis erectis, tribus exterioribus lanceolatis, interioribus oblongis, labello ovato margine undulato-crenato.*—*Willd. sp. pl.* 4. p. 107.

*hyemale.*

*Arethusa spicata. Walt. fl. car.* 222.

On the side of fertile hills, under the shade of trees: Pennsylvania to Carolina. *W.* May. *v. v.* Flowers greenish-purple. It is known among the inhabitants by the name of *Adam and Eve*. The roots bruised, with a small addition of water, give a strong cement, which when applied to broken china and glass is exceedingly durable.

4. *C. scapo vaginato aphylo, floribus pedicellatis, petalis lanceolatis æqualibus, labello ovato obtuso.* *Willd. sp. pl.* 4. p. 110.

*Odontorhizon.*

*Ophrys corallorhiza. Mich. fl. amer.* 2. p. 158.

*Icon. Pluk. alm. t.* 211. f. 1 & 2.

In shady woods, about the roots of trees: Canada to Virginia. Flowers small, dark purple mixed with yellow.

677. CALYPSO. *Salisb. in parad. lond.* t. 89.

1. *C. folio radicali unico subrotundo-ovato nervoso, scapo unifloro vaginato.*—*Salisb. l. c.*

*borealis.*

*Limodorum boreale. Willd. sp. pl.* 123.

*Cypripedium bulbosum. Sp. pl.* 1347.

*Cymbidium boreale. Swartz. nov. act. ups.* 6. p. 76.

*Icon. Parad. lond.* 89. *Smith spicil. t.* 11. *Gmel. fl. sib.* 1. t. 2. f. 5.

In Nova Scotia. *Menzies.* On the Columbia river. *M. Lewis.* *W.* May, June. *v. s. in Herb. Lewis.* Flower large, purplish rose-coloured; the lower lip resembling *Cypripedium*.

## II. DIANDRIA.

## 678. CYPRIPIEDUM. Swartz. act. holm. 1800, p. 250.

*candidum.*

1. *C. caule folioso, foliis oblongo-lanceolatis, lobo styli lanceolato obtusiusculo, labello petalis lanceolatis brevioribus compresso.*—*Willd. sp. pl. 4. p. 142.*

In Pennsylvania. *Muhlenberg. 2. +.* Resembles *C. Calceolus*; but the flowers are white, and not half the size; the form of the leaves and lobe of the style distinguish it sufficiently.

*parviflorum.*

2. *C. caule folioso, lobo styli triangulari acuto, petalis exterioribus ovato-oblongis acuminatis, interioribus linearibus contortis, labello petalis brevioribus compresso.*—*Willd. sp. pl. 4. p. 143.*

*C. Calceolus. Mich. fl. amer. 2. p. 161.*

Icon. *Salisb. in linn. trans. 1. p. 77. t. 2. f. 2. Pluk. mant. t. 418. f. 2.*

In shady fertile woods: New Jersey to Carolina. 2. May, June. *v. v.* Petals greenish-brown; lower lip yellow, with brown spots.

*pubescens.*

3. *C. caule folioso, lobo styli triangulari-oblongo obtuso, petalis exterioribus ovato-oblongis acuminatis, interioribus longissimis linearibus contortis, labello petalis brevioribus compresso.*—*Willd. sp. pl. 4. p. 143.*

*C. flavescens. Redout. pl. liliac.*

*C. Calceolus. B. Sp. pl. 1346.*

Icon. *Willd. hort. berol. 1. t. 13. Moris. hist. 3. s. 12. t. 11. f. 15.*

*C. Calceolus. Walt. fl. car. 222.*

On sunny fertile hills, among small trees and bushes, generally in rocky situations: Pennsylvania to Carolina. 2. May. *v. v.* Petals greenish-yellow with red spots; lower lip yellow. It approaches near to the preceding. Sometimes it is found with two or three flowers.

*spectabile.*

4. *C. caule folioso, lobo styli elliptico-cordato obtuso, petalis exterioribus lato-ovalibus obtusis, labello petalis longiore antice fisso.*—*Willd. sp. pl. 4. p. 143.*

*C. album. Ait. kew. 3. p. 303.*

*C. canadense. Mich. fl. amer. 2. p. 161.*

*C. reginæ. Walt. fl. car. 222.*

*C. Calceolus. Icon. Bot. hist. 3. In low marshy tracts. From its foliage are gathered lower side.*

5. *C. caule folioso, lobo styli triangulari acuto, petalis exterioribus ovato-oblongis acuminatis, interioribus linearibus contortis, labello petalis brevioribus compresso.*—*Willd. sp. pl. 4. p. 143.*

In shady fertile woods: New Jersey to Carolina. 2. May, June. *v. v.* Petals greenish-brown; lower lip yellow, with brown spots.

6. *C. caule folioso, lobo styli triangulari-oblongo obtuso, petalis exterioribus ovato-oblongis acuminatis, interioribus longissimis linearibus contortis, labello petalis brevioribus compresso.*—*Willd. sp. pl. 4. p. 143.*

*C. flavescens. Redout. pl. liliac.*

*C. Calceolus. B. Sp. pl. 1346.*

Icon. *Willd. hort. berol. 1. t. 13. Moris. hist. 3. s. 12. t. 11. f. 15.*

*C. Calceolus. Walt. fl. car. 222.*

On sunny fertile hills, among small trees and bushes, generally in rocky situations: Pennsylvania to Carolina. 2. May. *v. v.* Petals greenish-yellow with red spots; lower lip yellow. It approaches near to the preceding. Sometimes it is found with two or three flowers.

7. *C. caule folioso, lobo styli elliptico-cordato obtuso, petalis exterioribus lato-ovalibus obtusis, labello petalis longiore antice fisso.*—*Willd. sp. pl. 4. p. 143.*

*C. album. Ait. kew. 3. p. 303.*

*C. canadense. Mich. fl. amer. 2. p. 161.*

*C. reginæ. Walt. fl. car. 222.*

*C. Calceolus* γ. *Sp. pl.* 1346.

Icon. *Bot. mag.* 216. *Pluk. mant. t.* 418. *f.* 3. *Moris. hist.* 3. *s.* 12. *t.* 11. *f.* 17.

In low meadows and bogs, particularly in the mountainous tracts: Canada to Carolina. *℥.* May, June. *v. v.* From eighteen inches to three feet high. The plant in its foliage resembles *Helleborus viridis*; the flowers are generally by two, sometimes three, very large, the lower lip white with red veins, and crimson spots inside.

5. *C. caule folioso, lobo styli orbiculato obtusiusculo, petalis 5. duobus inferioribus lineari-lanceolatis deflexis, lateralibus linearibus horizontalibus, supremo ovato-oblongo acuto, labello longitudine petalorum antice obverse-conico saccato.*—*Ait. kew. ed. 2. tom. 5. p. 222*

In shady sphagnous woods, about Montreal, Canada. *M<sup>c</sup>Kenzie.* *℥.* May. *v. v.* Flower small, petals greenish-brown; lower lip white, with crimson veins; of a very singular structure, resembling at a front view a sheep's head, the two lateral petals forming the horns. The stem is pubescent, not a span high; leaves smooth, in general alternately by four. It distinguishes itself very strongly from all the rest by having five petals, and by the singular structure of its lower lip.

6. *C. scapo aphylo unifloro, foliis radicalibus geminis oblongis obtusis, lobo styli subrotundo-rhombeo acuminato deflexo, labello petalis lanceolatis longiore antice fisso.* *Willd. sp. pl. 4. p. 144.*

*C. acaule.* *Ait. kew. 3. p. 161.*

Icon. *Bot. mag.* 192. *Salisb. in linn. trans. 1. t. 3. f. 4.*

*Catesb. car. app. t. 3. Pluk. mant. t. 418. f. 1.*

In shady rocky situations and on dry mountain bogs: Canada to Carolina. *℥.* May, June. *v. v.* Not much above a span high; flower purple, large. I have observed a white variety on the Broad-mountains, Pennsylvania. The whole of this genus is known among the inhabitants by the name of *Mocassin Flower*, or sometimes *Ladies Slippers*.

*Arietinum.*

*humile.*

## III. HEXANDRIA.

679. ARISTOLOCHIA. *Gen. pl.* 1383.*Sipho.*

1. *A. foliis cordatis acutis, caule volubili, pedunculis unifloris bractea ovata instructis, corollis adscendentibus, limbo trifido æquali.* *Willd. sp. pl.* 4. p. 155.  
*A. macrophylla. Lam. encycl.* 1. p. 252.  
*Icon. Bot. mag.* 534. *L'Herit. stirp. t.* 7.

On the mountains: Pennsylvania to Carolina. ♀. June. *v. v.* A very high running vine; leaves large, and well calculated to form shady bowers; flowers very singular in structure, yellowish-brown; the leaves are more or less pubescent.

*Serpentaria.*

2. *A. foliis cordatis oblongis acuminatis, caule flexuoso adscendente, pedunculis radicalibus, corollæ labio lanceolato.* *Willd. sp. pl.* 4. p. 159.

In shady woods, on fertile soil: New England to Carolina; principally throughout the mountains. ♀. May, June. *v. v.* This is the famous *Virginia Snake-root*, so very highly and, I think, deservedly esteemed by the Indians and white inhabitants of America. I have seen a very narrow and long-leaved variety of it, which, if there were any difference in the flowers, might claim to be a distinct species.

## IV. DODECANDRIA.

680. ASARUM. *Gen. pl.* 801.*canadense.*

1. *A. foliis lato-reniformibus geminatis, calyce lanato profunde tripartito, laciniis sublanceolatis reflexis.*—*Mich. fl. amer.* 1. p. 279. *Willd. sp. pl.* 2. p. 838.  
*A. carolinianum. Walt. fl. car.* 143.

*A. latifolium. Salisb. prodr.* 344.

*Icon. Moris. hist.* 3. s. 13. t. 7. f. 4. *Corn. canad. t.* 25.

In shady rocky situations: Canada to Carolina. ♀. April. *v. v.* The root is highly aromatic, and known by the inhabitants under the name of *Wild Ginger*. It is said to be made use of by the Indian females to prevent impregnation.

2. *A. foliis*  
*flore sul*  
*lato.—M*  
*p. 838.*  
*In shady r*  
*v. v. L*  
 3. *A. foliis s*  
*infra lim*  
*amer. J*  
*A. virginic*  
*In shady v*  
*Leaves s*

2. *A. foliis solitariis rotundato-cordatis glabris coriaceis, flore subsessili, calyce extus glabro breviter campanulato.*—*Mich. fl. amer. 1. p. 279. Willd. sp. pl. 2. p. 838.*

In shady rocky woods: Virginia and Carolina. *fl.* May. *v. v.* Leaves white speckled, very smooth.

3. *A. foliis subhastato-cordatis coriaceis, calyce tubuloso infra limbum brevissimo trifidum coarctato.* *Mich. fl. amer. 1. p. 279.*

*A. virginicum. Walt. fl. car. 143.*

In shady woods of Lower Carolina. *fl.* May. *v. v.* Leaves speckled.

*virginicum.*

*arifolium.*

## XIX. DICLINIA.

### I. SEGREGATÆ.

#### \* *Uniloculares.*

681. VALISNERIA. *Dioica. Masc. Spatha* 2-partita, *Spadix* conicus tectus flosculis. *Cal.* 3-partitus, *Stam.* 2. *Fem. Spatha* tubulosa, 2-fida, 1-flora. *Cal.* superus, longissimus, limbo 6-partito, lacinii alternis linearibus. *Stigmata* 3. semibifida. *Caps.* cylindrica, 1-locularis, polysperma.
682. NAJAS. *Monoica. Masc. Cal.* cylindricus, 2-fidus. *Stamen* 1, filamento longo, anthera 4-valvi: valvis patentibus. *Fem. Cal.* 0. *Styl.* 1. *Stigm.* 2. *Nux* 4-sperma.
683. DIOETIS. *Monoica. Masc. Cal.* 4-phyllus. *Stam.* 4. *Fem. Cal.* 1-phyllus, bicornis. *Stylus* 2-partitus. *Sem.* 1. villosum, calyce bicorni tectum.
- \*\* *Tricoccae*; *Capsula* 3-locularis, 3-sperma. *Stamina* monadelphæ. *Monoica.*
684. RICINUS. *Masc. Cal.* 5-partitus. *Stam.* numerosa. *Fem. Cal.* 3-partitus. *Styli* 3. bifidi. *Caps.* echinata.
685. JATROPHA. *Masc. Cor.* 1-petala, infundibuliformis. *Stam.* 10. alterna breviora. *Fem. Cor.* 5-petala, patens. *Styli* 3. bifidi.
686. CROTON. *Masc. Cal.* cylindricus, 5-dentatus. *Cor.* 5-petala, aut 0. *Stam.* 10—15. *Fem. Cal.* polyphyllus. *Cor.* 0. *Styli* 3. bifidi.
687. ACALYPHA. *Cal.* 3—4-partitus, 1-bracteatus. *Masc. Bractea* squamiformis. *Stam.* 8—16. *Fem. Bractea* magna cordata involucriformis. *Styli* 3. bifidi.
688. TRAGIA. *Masc. Cal.* 3-partitus. *Stam.* 3. subsessilia. *Fem. Cal.* 5-partitus. *Stylus* 3-fidus.

689. EUP  
lim  
que  
ticu  
foli  
Flo  
Sty  
690. STIL  
in r  
tubr  
Stam  
Stig

691. SALI  
flori  
Stam  
fidu  
papy  
692. POPU  
squa  
integ  
fidu  
Sem  
693. MYR  
tis,  
rius

694. BETU  
flori  
12.  
1. u  
695. ALN  
cati  
Sta  
Sem  
696. CAR  
flo  
6-  
lac  
tu

689. **EUPHORBIA.** *Involucrum* commune calyciforme, limbo extrorsum appendicibus petaloideis, plerumque 5.; introrsum lacinulis totidem alternis et denticulatis. *Masc.* tot quot lacinulæ. *Cal.* polyphyllus: foliolis pinnatim laciniatis. *Stam.* 4-5. aut plura. *Flos fem.* centralis, nudus, solitarius, stipitatus. *Styli* 3. bifidi.
690. **STILLINGIA.** *Involucrum* coriaceum, urceolatum, in masculis multiflorum, 1-florum in femineis. *Cal.* tubulosus, infundibuliformis, limbo ciliato. *Masc.* *Stam.* 2. exerta, basi coalita. *Fem.* *Stylus* filiformis. *Stigm.* 3.

## II. AMENTACEÆ.

\* *Flores dioici.*

691. **SALIX.** *Amenta* cylindracea, imbricata: squamis 1-floris. *Cal.* O. *Masc.* *Glandula* baseos nectarifera. *Stam.* 1-6. interdum monadelphæ. *Fem.* *Styl.* bifidus. *Caps.* 1-locularis, 2-valvis, polysperma. *Sem.* papposa.
692. **POPULUS.** *Amenta* cylindracea, laxè imbricata: squamis margine laceris, 1-floris. *Cal.* urceolatus, integer. *Masc.* *Stam.* 8. exerta. *Fem.* *Stigma* 4-fidum. *Caps.* 2-locularis, 2-valvis, polysperma. *Sem.* papposa.
693. **MYRICA.** *Amenta* ovata, imbricata: squamis lunatis, trifloris. *Cal.* O. *Masc.* *Squama* 4-andra, rarius 6-andra. *Fem.* *Styli* 2. *Drupa* 1-sperma.

\*\* *Flores monoici.*

694. **BETULA.** *Amenta* imbricata: squamis peltatis, 3-floris, 3-fidis. *Masc.* *Cal.* 4-partitus. *Stam.* 10-12. *Fem.* *Squama* 2-flora. *Cal.* O. *Stigm.* 2. *Sem.* 1. utrinque membrana alatum.
695. **ALNUS.** *Amentum* receptaculis cuneiformibus truncatis 3-floris compositum. *Masc.* *Cal.* 4-partitus. *Stam.* 4. *Fem.* *squama* biflora. *Cal.* O. *Stigm.* 2. *Sem.* 1. compressum, ovatum, apterum.
696. **CARPINUS.** *Amenta* laxè imbricata: squamis 1-floris. *Cal.* O. *Masc.* *Squama* ovata, ciliata. *Stam.* 6-10. *Antheræ* apice villosæ. *Fem.* *Squama* lanceolata, ciliata, biflora. *Germen* apice denticulatum. *Stigm.* 2. *Nux* ovata, sulcata.

697. *OSTRYA*. *Amenta* imbricata. *Masc. Cal.* squama. *Fil.* ramosa. *Fem. Amentum* nudum. *Caps.* inflata, imbricatae, basi monospermæ.
698. *FAGUS*. *Masc. Amentum* subrotundum. *Cal.* 5-fidus, campanulatus. *Stam.* 8—12. *Fem. Cal.* 4-dentatus, setosus. *Germ.* 2. *Nuces* 2. calyce echinato, coriaceo, 4-fido inclusæ.
699. *CASTANEA*. *Masc. Amentum* nudum, lineare. *Cal.* sub-6-phyllus. *Stam.* 5—20. *Fem. Cal.* 5-6-phyllus, muricatus. *Germ.* 3. *Stigm.* penicilliforma. *Nuces* 3. calyce echinato inclusæ.
700. *QUERCUS*. *Masc. Amentum* nudum, lineare. *Cal.* sub-5-fidus. *Stam.* 4—10. *Fem. Cal.* plerumque 6-dentatus, scaber. *Styli* 2—5. *Nux* coriacea, calyce persistente basi cincta.
701. *CORYLUS*. *Masc. Amentum* imbricatum: squamis 3-fidis unifloris. *Cal.* 0. *Stam.* 8. *Fem. Cal.* bipartitus, lacerus. *Styli* 2. *Nux* ovata, calyce persistente cincta.
702. *LIQUIDAMBAR*. *Masc. Amentum* conicum, involucri 4-phylo cinctum. *Filam.* numerosa. *Fem. Amentum* globosum, involucri 4-phylo cinctum. *Cal.* urceolatus, biflorus. *Styli* 2. *Caps.* 2. basi cinctæ, 2-valves, polyspermæ.
703. *COMPTONIA*. *Masc. Amentum* cylindricum, laxè imbricatum; squamis 1-floris. *Cal.* 2-phyllus. *Filam.* 3. bifurcata. *Fem. Amentum* ovatum. *Cal.* 6-phyllus. *Styli* 2. *Nux* ovata, 1-ocularis.
704. *PLATANUS*. *Amentum* globosum. *Masc. Cor.* vix manifesta. *Antheræ* filamentum circumnatae. *Fem. Cor.* polypetala. *Styli* stigmatè recurvo. *Sem.* subrotunda, stylo mucronata, basi papposa.
705. *JUGLANS*. *Masc. Amentum* imbricatum. *Cal.* 6-partitus. *Filam.* 4—18. *Fem. Cal.* 4-fidus, superus. *Cor.* 4-partita. *Styli* 2. *Drupa* coriacea, nuce sulcata.
706. *MORUS*. *Amentum* subglobosum. *Masc. Cal.* 4-partitus. *Filam.* 4. *Fem. Cal.* 4-phyllus. *Styli* 2. *Cal.* baccatus. *Sem.* 1.

## III. CONIFERÆ.

\* *Flores monoici.*

707. *PINUS*. *Masc. Amentum* imbricatum. *Cal.* 4-phyllus. *Stam.* plurima. *Anth.* nudæ. *Fem. Cal.* strobili s. coni: squama biflora. *Pistill.* 1. *Nux* ala membranacea excepta.
708. *CUPRESSUS*. *Masc. Amentum* ovatum, imbricatum: squamis (20) oppositis, apice peltatis, basi 4-andris. *Anth.* sessiles. *Fem. Conus* subrotundus: squamis (8—10) oppositis, peltatis. *Germina* sub singulis plurima minima serie simplici. *Styl.* 0. *Stigm.* cylindricum, fistulosum. *Nux* angulosa 1-sperma.
709. *THUYA*. *Masc. Amentum* ovatum: squamis 6. trino ordine oppositis, apice obtusis, basi 4-andris; *Anth.* substipitatae. *Fem. Conus* subovatus: squamis oblongis apice incrassatis, longitudinaliter conniventibus. *Germina* 2. *Styl.* brevissimus. *Stigm.* concavum. *Caps.* 1-spermæ, margine alato.

\*\* *Flores dioici.*

710. *JUNIPERUS*. *Amenta* ovata: squamis stipitato-peltatis. *Masc. Squamæ* ternatim verticillatæ, stipite 2—3—4-antherifero. *Fem. Squamæ* pauciores, cruciatim oppositæ. *Germ.* 1. *Styl.* 0. *Stigm.* tubulosum. *Fructus* bacciformis, carnosus. *Nux* 1-locularis.
711. *TAXUS*. *Gemma* polyphylla, opposite-imbricata. *Cal.* 0. *Masc. Antheræ* peltatæ, 8-fidæ. *Fem. Germ.* 1. *Styl.* 0. *Stigm.* 1. *Receptaculum* cupulæforme, nuda, nuda.
712. *ZAMIA*. *Amentum* strobiliforme. *Masc. Squama* obovata. *Cal.* 0. *Antheræ* plures, globosæ, rima dehiscentes, in squama sessiles. *Fem. Squamæ* peltatæ. *Germ.* 2. *Styl.* 0. *Baccæ* 2. 7-spermæ.

## I. SEGREGATÆ.

681. VALLISNERIA. *Gen. pl.* 1491.

- americana.* 1. *V. foliis linearibus, pedunculis masculis femineisque rectis.* *Willd. sp. pl.* 4. p. 651. *Mich. fl. amer.* 2. p. 220.

At the bottom of muddy and slow-flowing rivers: Mississippi and St. John's, Florida. *Michaux.* In Oswego river, New York: Delaware, Pennsylvania, and James's and Greenbrier rivers, Virginia. *Ph. W.* 3? Aug. - Oct. *fl. fl.* This most interesting and singular plant I observed in the Delaware, near Philadelphia, in 1800; which discovery I communicated, accompanied with a drawing and description, to Dr. B. S. Barton, of Philadelphia. The æconomy of its frondation is highly interesting to the young student of the sexual system. Michaux and Willd. now consider it as specifically distinct from *V. spiralis*; but I have always considered it only a local variety, as the peduncles of the female flowers are in deep water really spiral.

682. NAJAS. *Willd. act. acad. berol.* 1798, p. 85.

- canadensis.* 1. *N. pusilla, filiformis, lævis; foliis angustissime linearibus.* *Mich. fl. amer.* 2. p. 220.  
In lakes: Canada, on Lake St. John's. *Michaux.* +.

683. DIOTIS. *Gen. pl.* 1423.

- lanata.* 1. *D. omnibus partibus cano-tomentosa; caule flexuoso, glomerulis spicarum confertissimis.*  
On the banks of the Missouri, in open prairies. *M. Lewis.* 7. Aug. Sept. *v. s. in Herb. Lewis.* Resembles *Diotis ceratoides*, but is distinct at first sight by its long woolly tomentum.

684. RICINUS. *Gen. pl.* 1464.

- communis.* 1. *R. foliis peltatis palmatis, lobis lanceolatis serratis, caule herbaceo pruinoso, stigmatibus tribus apice bifidis, capsulis echinatis.* *Willd. sp. pl.* 4. p. 564.  
*Icon. Blackw. t.* 148.

In cultivated grounds, frequent in old plantations in Virginia and Carolina. ☉. Aug. Sept. *v. v.* Introduced by the Negroes. Known by the name of *Castor-oil Bean*.

685. JATROPHA. *Gen. pl.* 1463.

1. *J. herbacea*, stimulis patulis horridissima; foliis subpal-mato-lobatis, lobis obtusiusculis subsinuato-incisis, cymis brevi-pedunculatis. *Mich. fl. amer.* 2. p. 216. *stimulosa.*  
*J. urens*. *Walt. fl. car.* 239.  
*Icon. Pluk. alm.* t. 220. f. 3. *Marcg. brass.* 79. f. 2.  
In fields and plantations: Virginia to Florida. *℥*. July, Aug. *p. p.* Flowers white; roots tuberos and eatable, the same as *J. Manihot*, which is so generally cultivated in the West Indies under the name of *Cassida*. The present plant is a very injurious weed in some parts of Carolina, as it ruins the Negroes' feet when they tread upon it; from which it is known by the name of *Tread-softly*.

686. CROTON. *Gen. pl.* 1462.

1. *C. foliis ellipticis integerrimis obtusiusculis incanis sub-tus tomentosis petiolatis, spicis terminalibus paucifloris*. *Willd. sp. pl.* 4. p. 532. *Walt. fl. car.* 239. *maritimum.*  
*C. disjunctiflorum*. *Mich. fl. amer.* 2. p. 214.  
*β. C. spicis dichotomalibus, flore femineo unico pedicellato.* *monanthogy-num.*  
*Mich. fl. amer.* 2. p. 215.  
On the sea-coast of Carolina; *β.* in Tennessee, near Nashville. *℥*. *℥*. June, July. *v. s.* The flowers of this genus are small and inconspicuous. The branches sometimes live over winter, but it cannot be considered a real shrub. Most of the species here mentioned are covered with stellated hairs.
2. *C. suffruticosum, stellato-tomentosum; foliis oblongis integerrimis sub-tus tomentosis petiolatis, pedunculis terminalibus subbifloris.*—*Willd. sp. pl.* 4. p. 535. *argyranthe-mum.*  
*C. punctatum*. *Jacq. ic. rar.* 3. t. 621.  
In sterile woods of Georgia and Florida. *℥*. *℥*. July, Aug. *v. s.*
3. *C. hispidiissimum; foliis oblongis serratis sub-tus hirtis glandulosum.*  
basi subintegerrimis biglandulosis, caule trichotomo, spicis alaribus, capsulis glomeratis sessilibus.—*Willd. sp. pl.* 4. p. 540.  
*C. scordioides*. *Lam. encycl.* 2. p. 214.

Icon. *Jacq. ic. rar.* 1. t. 194.

On the sea-coast of Carolina and Florida. ☉. July, Aug. v. v.

*capitatum.*

4. C. tomentoso-lanatum; foliis oblongo-ovalibus obtusis basi rotundatis integris, utrinque tomentosis, floribus femineis ad basin spicillæ marium capitatum congestis. — *Mich. fl. amer.* 2. p. 214.

In the Illinois country. *Michaux.* ☉. +. Resembles *C. argenteum*.

687. ACALYPHA. *Gen. pl.* 1461.

*virginica.*

1. A. floribus femineis ad basin spicæ masculæ, involucris ovatis acuminatis dentatis, foliis breviter petiolatis oblongo-lanceolatis remote obtuse-serratis. — *Willd. sp. pl.* 4. p. 521.

Icon. *Pluk. phyt.* t. 99. f. 4.

In fields, cultivated grounds, and on road sides: Canada to Virginia. ☉. June—Aug. v. v.

*caroliniana.*

2. A. floribus femineis ad basin spicæ masculæ, involucris cordatis dentatis, foliis longe petiolatis subrhombicis ovatis serratis basi integerrimis. — *Willd. sp. pl.* 4. p. 521. *Walt. fl. car.* 238.

In cultivated grounds: Virginia to Florida. ☉. July, Aug. v. v.

688. TRAGIA. *Gen. pl.* 1410.

*urens.*

1. T. erecta; foliis lanceolatis sessilibus obtusis apice subdentatis, cauleque ramoso pubescentibus. *Willd. sp. pl.* 4. p. 325.

*subovalis.*

- a. T. foliis oblongo-ovalibus nonnullis subcuneatis. *Mich. fl. amer.* 2. p. 175.

Icon. *Pluk. alm.* t. 107. f. 5.

*lanceolata.*

- β. T. foliis lanceolatis subdentatis integrisque. *Mich. l. c.* T. innocua. *Walt. fl. car.* 229.

*linearis.*

- γ. T. foliis linearibus fere omnibus integris. *Mich. l. c.* In waste places, on road sides and cultivated grounds: Virginia to Carolina. ☉. June—Aug. v. v.

*urticifolia.*

2. T. erecta, caule hirsutissimo, foliis cordatis ovatis serratis. — *Willd. sp. pl.* 4. p. 324.

T. mercurialis. *Walt. fl. car.* 229.

In fields: Virginia to Georgia. ☉. July. v. s. in *Herb. Lyon.*

2. *T. scandens*, hispida; foliis profunde cordatis ovatis acute  
dentatis.—*Willd. sp. pl.* 4. p. 323. *macrocarpa*.  
In Kentucky. *Michaux.* ☉. July. *v. s. in Herb.*  
*Lyon.*

689. EUPHORBIA. *Gen. pl.* 823.

\* *Floribus fasciculato-terminalibus.*

1. *E. frutescens*; foliis petiolatis ovatis subdentatis pandu- *cyathophora*.  
riformibus, summis involucellisque coloratis, floribus  
subumbellatis.—*Willd. sp. pl.* 2. p. 891.  
*E. heterophylla.* *Jacq. collect.* 1. p. 157.  
*Icon. Jacq. ic. rar.* 3. t. 480. *Murr. comm. gest.* 7.  
p. 81. t. 1.

On the banks of the Mississippi, and in Georgia and  
Florida. ♀. ☉. June, July. *v. v.* About three  
feet high; upper leaves and involucres painted deep  
red.

2. *E. pumila*, hirsuta; foliis oppositis ovalibus dentatis, *dentata*.  
flores ad summitates congestis. *Mich. fl. amer.* 2.  
p. 211.

In shady rocky situations: Pennsylvania to Tennessee. ☉.  
July, Aug. *v. v.* The upper leaves spotted.

3. *E. pusilla*, erecta, ramosa, pubescens; foliis sparsis line- *graminifolia*.  
aribus integerrimis, supremis basi discoloribus.—*Mich.*  
*fl. amer.* 2. p. 210.

On the sea-coast of Georgia and Florida. *Michaux.* +.  
Resembles *E. hyssopifolia*.

\*\* *Dichotomæ.* (Umbella bifida aut nulla.)

4. *E. glabra*, ramosissima, patulo-erecta; ramis divarica- *hypericifolia*.  
tis, foliis oppositis serratis ovali-oblongis subfalcatis  
corymbis terminalibus.—*Willd. sp. pl.* 2. p. 895.

*Icon. Comm. præl.* 60. t. 10. *Rob. ic.* 11. *Sloan. hist.*  
*jam.* 1. t. 126.

On the banks of rivers and in cultivated sandy grounds:  
Canada to Florida. ☉. June—Sept. *v. v.*

5. *E. erecto-patula*; foliis oppositis serratis oblongis pilosis, *maculata*.  
floribus axillaribus solitariis, appendicibus calycinis  
coloratis.—*Willd. sp. pl.* 2. p. 896.

*Icon. Jacq. hort. vind.* t. 186. *Pluk. alm.* t. 65. f. 8.  
In cultivated grounds: Pennsylvania to Carolina. ☉.  
July—Sept. *v. v.* Leaves marked with a brown spot.  
The involucre of the florets white.

- thymifolia*. 6. *E. humifusa*, gracilis, pubescens; foliis oppositis ovali-oblongis obtusis superne subserratis, capitulis axillaribus glomeratis subsessilibus.—*Willd. sp. pl.* 2. p. 898. Icon. *Pluk. alm.* t. 113. f. 2. *Burm. zeyl.* t. 105. f. 3. On the banks of the Ohio and Mississippi. ☉. June—Aug. v. v.
- polygonifolia*. 7. *E. glaberrima*, diffusa; foliis oppositis integerrimis linearilanceolatis obtusis, floribus solitariis axillaribus.—*Willd. sp. pl.* 2. p. 900. Icon. *Jacq. collect. suppl.* t. 13. f. 3. In cultivated grounds: Canada to Virginia. ♀. June—Sept. v. v.
- Ipecacuanhæ*. 8. *E. procumbens*, pumila, glabra; foliis oppositis obovatis seu lanceolatis, pedunculis axillaribus unifloris elongatis.—*Willd. sp. pl.* 2. p. 900. Icon. *Bot. mag.* 1494. In pine-barrens: New Jersey to Carolina. ♀. June, July. v. v. This humble species has perhaps the deepest root of any perennial I know; I frequently have dug to the depth of more than six feet, and was by appearance as far off from its end as ever.
- portulacoides*. 9. *E. erecta*; foliis integerrimis ovalibus retusis, pedunculis axillaribus unifloris folia æquantibus.—*Willd. sp. pl.* 2. p. 901. In sandy soil, and cultivated grounds: Pennsylvania. ♀. June—Aug. v. v.
- pubentissima*. 10. *E. erecta*; caule calycibusque pubescentibus, foliis oppositis sessilibus subcordato-ovalibus obtusis, pedunculis solitariis capillaribus unifloris, appendicibus calycinis coloratis petaloideis. *Mich. fl. amer.* 2. p. 212. In Carolina. *Michaux.* ♀. +

\*\*\* *Umbellatæ; involucreatæ.*

- Peplus*. 11. *E. umbella* 3-fida: dichotoma, involucellis ovatis, foliis integerrimis obovatis petiolatis. *Willd. sp. pl.* 2. p. 903. Icon. *Engl. bot.* 959. In cultivated grounds: Pennsylvania and Virginia. ☉. July, Aug. v. v.
- obtusata*. 12. *E. umbellata* 3-fida: bis dichotoma, involucellis ovatis obtusiusculis subcordatis, foliis alternis sessilibus spathulatis involucellisque serrulatis glabris, capsulis muricatis.

In cultivated grounds: Virginia, near Staunton.  $\mathcal{U}$ .  
July, Aug. v. v. Resembles *E. spathulata*.

13. *E. caulibus gracile-debilibus, simpliciter 3-fidis, foliis oppositis ternisve subsessilibus ovalibus integris, pedunculis terminalibus solitariis unifloris.*—*Mich. fl. amer.* 2. p. 212.

In shady rocky situations: Pennsylvania and Kentucky.  
 $\mathcal{U}$ . July, Aug. v. v. Resembles in aspect *Mercurialis annua*.

14. *E. umbella 3-fida: bis dichotoma, involucro foliiforme, involucellis oblongis cordatis margine membranaceis coloratis, foliis lanceolato-oblongis subcordato-amplexicaulibus acutis glaucescentibus glabris, appendicibus calycinis petaloideis subrotundis, capsulis pilosis.* *marginata.*

On the Yellow-stone river. *M. Lewis*.  $\odot$ . July. v. s. in *Herb. Lewis*. A very handsome species; the white margin of the involucre and white petal-like appendices have a fine contrast with the elegant soft green leaves.

15. *E. umbella 4-fida: dichotoma, foliis oppositis lanceolatis integerrimis.* *Willd. sp. pl.* 2. p. 906.

*Lathyris.*

Icon. *Blackw. t.* 123.

Not native, but frequently found near gardens and in cultivated ground.  $\mathcal{J}$ . July, Aug. v. v. It is generally known in America by the name of *Mole-plant*, it being supposed that no moles disturb the ground where this plant grows.

16. *E. umbella 5-fida: 3-fida: dichotoma; involucellis foliisque oblongis obtusis, appendicibus calycinis petaloideis obovatis.*—*Willd. sp. pl.* 2. p. 916.

*corollata.*

Icon. *Pluk. mant. t.* 446. f. 3.

In dry fields: Canada to Carolina.  $\mathcal{U}$ . July, Aug. v. v. It is very variable in its foliage: sometimes the leaves are quite linear.

17. *E. umbella 5-fida: trifida: bifida, involucris ovatis, petalis integris, foliis lanceolatis subpilosis apice serrulatis.* *Willd. sp. pl.* 2. p. 917.

*pilosa.*

Icon. *Gmel. sib.* 2. t. 93.

In shady wet woods, in the mountains of Maryland and Virginia.  $\mathcal{U}$ . June, July. v. v. From two to four feet high.

690. STILLINGIA. *Gen. pl.* 1470.

- sylvatica.* 1. *S. herbacea*; foliis sessilibus oblongis obtusis basi attenuatis serrulatis, flosculis masculis squamam floralem vix superantibus.—*Willd. sp. pl.* 4. p. 588.  
In pine-barrens: Virginia to Florida. ♀. May, June, v. v. Flowers yellow, in a spike, resembling a catkin.
- ligustrina.* 2. *S. fruticosa*; foliis petiolatis ovali-lanceolatis utrinque attenuatis integerrimis, flosculis masculis brevissime pedicellatis.—*Willd. sp. pl.* 4. p. 588.  
In shady woods: Carolina and Georgia. ♀. June, July, v. v.
- sebifera.* 3. *S. arborea*; foliis petiolatis rhombeis acuminatis integerrimis, infra basin glandula petiolari, floribus masculis pedicellatis.—*Willd. sp. pl.* 4. p. 588.  
*Croton sebiferum. Sp. pl.* 1425.  
Icon. *Pet. gaz.* t. 54. f. 3. *Pluk. amalth.* t. 390. f. 2.  
On the sea-coast of South Carolina; originally a native of China. ♀. July, Aug. v. v. Known by the name of *Tallow Tree*.

## II. AMENTACEÆ.

691. SALIX. *Gen. pl.* 1493.\* *Foliis integerrimis aut obsolete serratis; vernatio revoluta.*

- viminalis.* 1. *S. foliis lanceolato-linearibus longissimis acuminatis integerrimis subundulatis subtus sericeo-argenteis, versus marginem sparse glandulosis, stipulis exiguis, amentis præcoccibus, squamis subrotundis pilosissimis, germi-nibus sessilibus ovatis, stylo filiformi, stigmatibus acutis indivisis.*—*Willd. sp. pl.* 4. p. 706.  
Icon. *Hoffm. salic.* 1. t. 2. f. 1 & 2. t. 5. f. 2. t. 21. f. e. f. g.  
On the banks of rivers and about plantations; introduced from Europe. ♀. April, May. v. v. Filaments yellow, anthers orange.
- candida.* 2. *S. foliis lineari-lanceolatis longissimis apice obsolete denticulatis supra pubescentibus subtus niveo-tomentosis margine revolutis, stipulis lanceolatis petiolum subæ-*

quantibus, amentis præcoccibus cylindraceis, squamis obovato-lanceolatis longissime villosis.—*Willd. sp. pl. 4. p. 708.*

In dry shady woods: New York to Pennsylvania. *h.* April, May. *v. v.* The native place of this willow is not mentioned by Willdenow; but a plant in the collection of G. Anderson, Esq. which was found among a promiscuous collection of willows made by me on the Catskill mountains, New York, decides the question. To this gentleman's acute observations I am indebted for the present division of *Salices* "*vernatio revoluta*," as likewise for the greater part of the present arrangement of American willows.

3. *S. foliis lanceolatis acutiusculis subintegerrimis pubescenti-canis, subtus rugoso-venosis, margine revolutis, stipulis deciduis lanceolatis, amentis præcoccibus dian-dræis, squamis oblongis margine villosis, germinibus ovato-lanceolatis sericeo-villosis longe pedicellatis, stylo brevi, stigmatibus bifidis.*—*Willd. sp. pl. 4. p. 692.*

*S. tristis. Muhlb. in annals of bot. 2. p. 68. t. 5. f. 9.*

*S. alpina. Walt. fl. car. 243.*

*S. flava. Schæpf. mat. med. amer.*

In shady dry woods: New York to Virginia. *h.* April. *v. v.* From three to five feet high; branches greenish-yellow, with black dots; the anthers are purple, changing to yellow when burst; scales white with a red tip, which gives the catkins a very pleasing appearance. In this and the following species I have not been able to ascertain whether the vernatio is revolute; but their natural affinity to the preceding ones strongly indicates that they are so.

4. *S. foliis lineari-lanceolatis utrinque acutis integerrimis margine revolutis supra glabriusculis subtus rugoso-venosis tomentosis, stipulis nullis, amentis præcoccibus oblongis.*—*Willd. sp. pl. 4. p. 693.*

In dry sandy woods: New Jersey to Carolina. *h.* March, April. *v. v.*; *v. s. in Herb. Banks.* Approaches near to the preceding.

5. *S. foliis obovato-lanceolatis acutis integerrimis margine glandulosis glabris subtus glaucis, junioribus sericeis, stipulis nullis, amentis præcoccibus recurvatis, squamis apice nigris, pilis longitudine germinis, germinibus ovatis brevi-pedicellatis sericeis, stylo brevissimo, stigmatibus bifidis.*

*Muhlenbergiana.*

*tristis.*

*recurvata.*

In shady woods, in the mountains of New Jersey and Pennsylvania.  $\frac{1}{2}$ . April. *v. v.* A low shrub; branches brown, smooth; buds yellow.

\*\* *Foliis integerrimis aut obsolete serratis*; vernatio equitans.

† *Caule repente, depresso aut diffuso.*

*repens.*

6. *S. repens*; foliis elliptico-lanceolatis integerrimis acutis glabris subrus subsericeis, stipulis nullis, amentis præcocibus ovatis diandris, squamis obovatis obtusis pilosis apice fuscis, germinibus ovato-oblongis pedicellatis pubescentibus, stylo brevissimo, stigmatibus bilobis, capsulis glabris.—*Willd. sp. pl.* 4. p. 693.

*S. depressa. Hoffm. salic.* 1. t. 15 & 16.

*S. polymorpha. Ehrh. frut.* 49.

In Nova Scotia and Newfoundland.  $\frac{1}{2}$ . May. *v. s. in Herb. Banks.* A very small creeping species.

*reticulata.*

7. *S. repens*; foliis elliptico-orbiculatis obtusis integerrimis glabris reticulato-venosis subtus glaucis, stipulis nullis, amentis serotinis pedunculatis diandris, squamis obovatis obtusis pubescentibus, germinibus ovatis sessilibus villosis, stigmatibus subsessilibus bipartitis.—*Willd. sp. pl.* 4. p. 685.

Icon. *Fl. dan.* 212. *Hoffm. salic.* t. 15. 16. 17. *Fl. lapp.* t. 8. f. L. & t. 7. f. 1 & 2.

In Labrador, Newfoundland, and on the north-west coast.  $\frac{1}{2}$ . June. *v. s. in Herb. Banks.* A very low creeping species; leaves very handsomely marked with coloured veins.

*vestita.*

8. *S. repens*; foliis suborbiculatis integerrimis supra glabris reticulato-venosis subtus villis sericeis longissimis adpressis tectis, stipulis nullis, amentis serotinis pedunculatis linearibus sericeis, germinibus ovatis sessilibus villosis, stylo profunde bipartito, stigmatibus bifidis.

In Labrador.  $\frac{1}{2}$ . June. *v. s. in Herb. Lambert, et Banks.* A very elegant species, resembling the preceding.

*Uva ursi.*

9. *S. depressa*; foliis spathulato-obovatis obtusis integerrimis, inferne margine sparse glandulosis, glabris, supra nitidis, stipulis nullis, amentis serotinis laxis, squamis oblongis ciliatis, germinibus ovatis pedicellatis glabris, stylo bipartito, stigmatibus bilobis.

In Labrador.  $\frac{1}{2}$ . April, May. *v. v. in Hort. Anderson.*

For this beautiful little species I am indebted to G. Anderson, Esq.; it has all the appearance of *Arbutus Uva ursi* in habit, as well as in the form of its leaves.

10. *S. depressa*; foliis ovalibus subacutis basi cordatis integerrimis reticulato-venosis supra glabris, subtus pallidis nervo margineque pilosis, stipulis semicordatis.

In Labrador. *h. v. v. s. fl. in Hort. Anderson.* In general habit it resembles *S. myrsinites*.

11. *S. diffusa*; foliis obovatis obtusis integerrimis supra glabris, subtus sericeo-villosis, stipulis nullis, amentis subcoæthaneis sessilibus oblongis 2-andris, squamis obovatis apice nigris pilosis.

In Labrador. *h. Colmaster, North-west coast. Nelson. h. May. v. s. in Herb. Dickson. et Banks.* This species is allied to *S. Arenaria* Linn. and is more inclined to be upright than the preceding.

12. *S. erectuscula*, divaricata; ramulis lævigatis, foliis oblongo-lanceolatis utrinque acutis medio serrulatis glaberrimis patentibus planis discoloribus, stipulis nullis.

In Labrador. *h. v. v. s. fl. in Hort. Anderson.* This singular species distinguishes itself at first sight by its remarkable plain and patent leaves; it is inclined to rise from the ground on a single low stem, and approaches to the following division.

†† *Caule erecto.*

13. *S. ramulis lævigatis*, foliis obovato-lanceolatis acutis integerrimis utrinque glabris concoloribus, stipulis nullis, amentis coæthaneis pedunculatis glaberrimis, squamis oblongis pedicello duplo brevioribus vix pilosis, germinibus ovato-oblongis longissime pedicellatis glabris, stigmatibus sessilibus bifidis.

*S. pensylvanica Hortul.*

On the Catskill mountains, New York. *h. April. v. v.* This elegant and singular species flowered in the garden of G. Anderson, Esq., from a plant brought by me from America. He has one through another channel, which appears to be the male to this species.

14. *S. foliis suboppositis obovato-lanceolatis acutis glabris apice subserratis discoloribus, stipulis nullis, amentis præcocibus, squamis orbiculatis nigris, filamento unico, anthera geminata, germinibus sessilibus ovato-ellipticis sericeis, stylo brevissimo, stigmatibus ovatis emarginatis.—Willd. sp. pl. 4. p. 673.*

*cordifolia.*

*obovata.*

*planifolia.*

*pedicellaris.*

*Lambertiana.*

Icon. Engl. bot. 1359.

On the banks of rivers and in willow grounds; introduced from Europe.  $\frac{1}{2}$ . March, April. *v. v.* It is cultivated on account of its exceeding tough branches for the use of making baskets.

*rosmarinifolia.*

15. *S. foliis strictis lineari-lanceolatis utrinque acutis integerrimis margine subglandulosis supra deciduo-pubescentibus, subtus sericeis, stipulis exiguis lanceolatis erectis, amentis præcoccibus ovatis recurvatis, squamis oblongis obtusis ciliatis, germinibus pedicellatis lanceolatis villosis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl. 4. p. 679.*

Icon. Engl. bot. 1365.

In wet meadows and mountain swamps: Pennsylvania to Carolina.  $\frac{1}{2}$ . March, April. *v. v.* Not above three feet high. This species, though mentioned as a British plant in the Flora Britannica, is decidedly of American origin; as both sexes have been introduced from that country by G. Anderson, Esq. It has a great resemblance in general character to *S. recurvata*, but the *vernatio equitans* removes them far from one another.

*fuscata.*

16. *S. foliis obovato-lanceolatis acutis glabris subseratis subtus glaucis, junioribus pubescentibus, stipulis exiguis, amentis præcoccibus nutantibus, squamis obtusis intus vix pilosis, germinibus brevi-pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.*

In low overflowed grounds, on the banks of rivers: New York to Pennsylvania.  $\frac{1}{2}$ . March, April. *v. v.* Branches of the preceding year covered with a dark brown or black tomentum.

\*\*\* *Foliis remote obtuseque serratis.*

*conifera.*

17. *S. foliis oblongo-lanceolatis remote serratis acutis supra glabris subtus planis tomentosis, annectinis glabris, stipulis lunatis subdentatis, amentis præcoccibus diandris, squamis lanceolatis obtusis villosis, germinibus pedicellatis lanceolatis sericeis, stylo bifido, stigmatibus bilobis.*—*Willd. sp. pl. 4. p. 705.*

*S. longirostris. Mich. fl. amer. 2. p. 226.*

Icon. Wagh. amer. t. 31. f. 72.

In shady woods on gravelly dry soil: New York to Carolina.  $\frac{1}{2}$ . April. *v. v.* The cone-like excrescence at the end of the branches, occasioned by an insect, is not unfrequently found on other species belonging

to the present division, but particularly on *S. prinoides*.

18. *S. foliis oblongo-lanceolatis acutis basi biglandulosis obtuse serratis glabris subtus glaucis, stipulis ovatis acutis glanduloso-serratis, amentis coætaneis villosis basi foliosis, squamis lanceolatis obtusis villosis atris, germinibus longe pedicellatis lanceolatis glabris, stylo bifido, stigmatibus bifidis.*—*Willd. sp. pl. 4. p. 666.*

Icon. *Muhl. in annals of bot. 2. t. 5. f. 2.*

In wet meadows and woods: New England to Virginia.  $\frac{1}{2}$ . April. *v. v.* Branches green; younger ones purple, smooth.

*myricoides.*

19. *S. foliis ovali-oblongis acutis remote undulato-serratis glabris subtus glaucis, stipulis semicordatis inciso-dentatis, amentis præcocibus villosis, germinibus pedicellatis ovatis acuminatis sericeis, stylo longo, stigmatibus bifidis.*

On the banks of rivers: Pennsylvania to Virginia.  $\frac{1}{2}$ . March, April. *v. v.* Middle-sized; resembles *S. discolor*.

*prinoides.*

20. *S. foliis oblongis obtusiusculis glabris remote-serratis apice integerrimis subtus glaucis, stipulis deciduis lanceolatis serratis, amentis subcoætaneis diandris oblongis tomentosis, squamis oblongis acutis atris pilosis, germinibus subsessilibus lanceolatis tomentosis, stylo mediocri, stigmatibus bipartitis.*—*Willd. sp. pl. 4. p. 665.*

Icon. *Muhl. in annals of bot. 2. t. 5. f. 1.*

In low grounds and on the banks of rivers; common: New England to Carolina.  $\frac{1}{2}$ . April. *v. v.* Branches dark brown; filaments white; anthers red, yellow when burst. This is the most common in use for basket-making.

*discolor.*

21. *S. foliis lanceolatis acutis longissimis basi sensim attenuatis serrulatis glaberrimis subconcoloribus, stipulis semicordatis, amentis præcocibus erectis glabriusculis, germinibus pedicellatis ovatis glabris, stylo bifido, stigmatibus 2-lobis.*

In shady woods on the banks of rivers: New York and Pennsylvania.  $\frac{1}{2}$ . March, April. *v. v.* Leaves very long; resembles *S. prinoides*.

*angustata.*

22. *S. foliis linearibus utrinque acuminatis elongatis remotissime denticulatis glabris concoloribus, stipulis exiguè lanceolatis denticulatis, amentis serotinis pedun-*

*longifolia.*

culatis tomentosis diandris, squamis planis retusis, filamentis basi barbatis squama duplo longioribus.—Willd. *sp. pl.* 4. p. 670.

Icon. *Muhl.* in *annals of bot.* 2. t. 5. f. 6.

On the banks of the Susquehanna. *Muhlenberg.* h. July. +. Not above two feet high; branches brown; branchlets white.

\*\*\*\* *Foliis dense acuteque serratis.*

† *Triandrae.* (Filamentis 3—6.)

*babylonica.* 23. *S.* ramis pendulis, foliis lanceolatis acuminatis serratis glabris discoloribus, stipulis exiguis subrotundis, amentis coætaneis, germinibus sessilibus ovatis glabris.—Willd. *sp. pl.* 4. p. 671.

On road sides and about plantations; introduced from Europe. h. May. v. v. The *Weeping Willow* is now almost naturalized, being every where planted for ornament.

*Houstoniana.* 24. *S.* foliis lineari-lanceolatis acutis tenuissime serratis utrinque glabris nitidis concoloribus, stipulis nullis, amentis coætaneis cylindricis villosis, squamis ovatis acutis, filamentis 3—5. usque ad medium barbatis.

*S. tristis.* *Hortul.*

In Virginia and Carolina. h. v. v. s. fl.; v. s. c. fl. in *Herb. Banks. specimen Houstonianum.* This species, so frequently found in the gardens under the name of *S. tristis*, is very far from being in any way related to it. The specimen in the Banksian Herbarium was collected by Houston, and, as it is said, in Vera Cruz. But I am confident it is a more northern plant, as I frequently have seen it in Virginia. The branches are extremely brittle at their base.

*falcata.* 25. *S.* foliis longissimis lineari-lanceolatis superne sensim attenuatis subfalcatis basi acutis approximato-serratis utrinque glabris, junioribus sericeis, stipulis lunatis dentatis deflexis.

On the banks of rivers: Pennsylvania to Virginia. h. v. v. s. fl. A very smooth species; branches very slender and brown.

*nigra.* 26. *S.* foliis lanceolatis utrinque acutis serrulatis concoloribus glabris petiolis et nervo medio supra tomentosis, stipulis exiguis dentatis, amentis coætaneis erectis cylindricis villosis, squamis oblongis villosissimis, filamentis 3—6. basi barbatis, germinibus pedicellatis ovatis gla-

- bris, stylo brevissimo; stigmatibus bifidis.—*Willd. sp. pl.* 4. p. 657. *Marsh. arb.* 293.  
*S. caroliniana. Mich. fl. amer.* 2. p. 226.  
*S. pentandra. Walt. fl. car.* 243.  
*S. vulgaris. Clayt. fl. virg.*  
*Icon. Mich. arb.* 3. t. .... *Muhl. in annals of bot.* 2. t. 5. f. 5.

On the banks of rivers: Pennsylvania and Virginia.  $\eta$ .  
 May. *v. v.* A tree about twenty feet high; branches smooth, very brittle at the base.

27. *S. foliis ovato-oblongis cuspidato-acuminatis basi rotundatis serratis glandulosis utrinque glabris nitidis, stipulis oblongis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis obtusis basi pilosis apice serratis glabris, germinibus lanceolato-subulatis glabris, stylo bifido, stigmatibus obtusis.*—*Willd. sp. pl.* 4. p. 667.

*Icon. Muhl. in annals of bot.* 2. t. 5. f. 7. *Mich. arb.* 3. t. ....

In low grounds, about springs: New York to Virginia.  $\eta$ .  
 May. *v. v.* A very smooth and handsome species; branches yellowish brown; sometimes it grows to the size of a tree, but more generally it is only a shrub. It approaches to *S. amygdalina* of Europe.

28. *S. foliis oblongo-lanceolatis acuminatis basi subcordatis rigidis glabris argute serratis, serratura infima elongata, petiolis villosis, stipulis amplis cordatis obtusis glanduloso-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis atris lanatis, germinibus longe pedicellatis lanceolatis glabris, stylo brevissimo, stigmatibus bipartitis.*—*Willd. sp. pl.* 4. p. 667.

*S. cordata. Mich. fl. amer.* 2. p. 225.

*S. cordifolia. Herb. Banks. mss.*

*Icon. Muhl. in annals of bot.* 2. t. 5. f. 4.

In swamps and hedges: New England to Virginia.  $\eta$ .  
 April, May. *v. v.* Branches green, red towards the end, younger ones pubescent. It is very tough, and much in use by the basket-makers.

29. *S. foliis oblongo-lanceolatis acuminatis basi cordatis argute serratis glabris subtus pallidioribus, stipulis amplis ovato-subrotundis cartilagineo-serratis, amentis coætaneis sub-3-andris, squamis lanceolatis lanatis atris, germinibus pedicellatis lanceolatis glabris, stylo*

*lucida;*

*rigida;*

*cordata;*

brevisimo, stigmatibus bifidis.—*Willd. sp. pl.* 4 p. 666.

Icon. *Muhl. in annals of bot.* 2. t. 5. f. 8.

In low and swampy grounds, on the banks of rivers: New York to Virginia.  $\frac{1}{2}$ . April, May. *v. v.* A very elegant species, about six or eight feet high.

†† *Diandræ.*

*grisea.*

30. *S. foliis lanceolatis acuminatis serrulatis supra glabris nervo medio tomentosis subtus sericeis nudisve, stipulis linearibus deflexis deciduis, amentis præcoccibus, squamis oblongis pilosis apice atris, germinibus oblongis pedicellatis sericeis, stigmatibus sessilibus obtusis.*—*Willd. sp. pl.* 4. p. 699.

*S. sericea. Muhl. in annals of bot.* 2. t. 5. f. 8. *Marsh. arb.*

In low overflowed grounds: Pennsylvania to Virginia.  $\frac{1}{2}$ . April. *v. v.* About eight feet high; branches greenish-purple, very brittle at the base.

*petiolaris.*

31. *S. foliis lanceolatis undique serratis glabris subtus glaucis sericeis basi plerumque inæqualibus, stipulis lunatis dentatis exiguis, amentis præcoccibus laxis, squamis obovatis obtusis nigris pilosis, germinibus longe pedicellatis ovatis sericeis, stigmatibus sessilibus bilobis.*—*Willd. sp. pl.* 4. p. 665.

*S. pensylvanica. Hortul.*

Icon. *Engl. bot.* 1147.

In swamps and on the banks of rivers; common.  $\frac{1}{2}$ . April. *v. v.*; *v. s. in Herb. Lambert. et Anderson.* Branches slender, smooth, dark brown. It has been by mistake adopted as a native of Great Britain.

*alba.*

32. *S. foliis lanceolatis acuminatis serratis utrinque sericeis, serraturis infimis glandulosis, stipulis obsoletis, amentis corætanis elongatis, squamis elliptico-lanceolatis concoloribus pubescentibus, germinibus subsessilibus ovato-oblongis denique glabris, stylo brevi, stigmatibus bipartitis crassis.*—*Willd. sp. pl.* 4. p. 710.

Icon. *Hoffm. salic.* 1. t. 7. & 8. & t. 24. f. 3.

On road sides and river banks; introduced from Europe.  $\frac{1}{2}$ . April, May. *v. v.* A tall tree.

*vitellina.*

33. *S. foliis lanceolatis acuminatis crebro-serratis supra glabris subtus discoloribus subsericeis, stipulis nullis, amentis subcorætanis cylindricis, squamis ovato-lan-*

ceolatis concoloribus extus pubescentibus, germinibus sessilibus ovato-lanceolatis glabris, stigmatibus subsessilibus bilobis.—*Willd. sp. pl. 4. p. 668.*

Icon. *Hoffm. salic. 1. t. 11. & 12. & t. 24. f. 1. Engl. bot. 1050.*

On road sides and about plantations; common. Introduced from Europe. *h.* May. *v. v.* A middle-sized tree.

34. *S. foliis lanceolatis acuminatis concoloribus glabris glanduloso-serratis, amentis coætaneis, nectario gemino majusculo: lobis lanceolatis difformibus apice dentatis glabris, flosculis terminalibus 3-andris.*

In low grounds: New York and New Jersey. *h.* April. *v. v.* Resembles in leaves and habit the preceding, and in fructification the following.

*ambigua.*

35. *S. foliis lanceolatis acuminatis undique serratis glaberrimis concoloribus, petiolis dentato-glandulosis, stipulis rotundatis, amentis subcoætaneis, squamis obovatis villosis, nectario masculorum gemino, germinibus subsessilibus lanceolatis glabris, stigmatibus sessilibus bipartitis.*—*Hoffm. salic. 2. t. 31. Engl. bot. 1937.*

On road sides and about plantations. Introduced from Europe. *h.* April, May. *v. v.* A tall tree; branches very brittle.

*decipiens.*

36. *S. foliis elliptico-ovatis undique serrulatis utrinque glabris nitidis concoloribus, stipulis lanceolatis serratis, ramulis hirtis, amentis subpræcocibus erectis cylindricis, squamis lanceolato-oblongis longe villosis, germinibus ovato-lanceolatis sessilibus sericeis, stigmatibus subsessilibus bifidis.*—*Willd. sp. pl. 4. p. 678.*

Icon. *Fl. lapp. t. 8. f. f. t. 7. f. 6. Fl. dan. 1054. Hoffm. salic. t. 18.*

In Labrador. *h.* May. *v. v.* in *Hort. Anderson.*; *v. s.* in *Herb. Lambert.* A small straggling bush, not above a foot high; branches purplish-yellow.

*myrsinites.*

37. *S. foliis orbiculatis subretusis serratis utrinque glabri; nitidis, stipulis nullis, amentis serotinis paucifloris, squamis obovatis obtusis villosis, germinibus oblongo-ovatis subsessilibus glabris, stigmatibus brevissimis subsessilibus.*—*Willd. sp. pl. 4. p. 682.*

Icon. *Fl. dan. 117. Hoffm. salic. 1. t. 20. Fl. lapp. t. 8. f. h. t. 7. f. 3. & 4.*

On the north-west coast. *D. Nelson.* *h.* June, July.

*herbacea.*

*v. s. in Herb. Banks.* The smallest of all the known species; the stems not above an inch high.

692. POPULUS. *Gen. pl.* 1531.

- balsamifera.* 1. *P. foliis ovatis acuminatis adpresso-serratis subtus albidis reticulato-venosis, gemmis resinosis.* *Willd. sp. pl.* 4. p. 805.  
*Icon. Mich. arb.* 3. p. 306. t. 13. f. 1. *Duham. arb. ed. nov.* 2. t. 50. *Pall. fl. ross.* 1. t. 41. *Wangh. amer.* t. 28. f. 59. *Trew chret.* t. 46. *bona.*  
 In Canada, particularly plenty about Hudson's Bay. *h.* March. *v. v.* From seventy to eighty feet high; the young buds are covered with a very odoriferous balsam, from which it is called *Balsam Poplar*; the natives call it *Tacamahac*.
- candicans.* 2. *P. foliis cordatis ovatis acuminatis obtuse inæqualiter serratis subtus albidis subtripplinerviis reticulato-venosis, petiolis hirsutis, gemmis resinosis, ramis teretibus.*—*Willd. sp. pl.* 4. p. 806.  
*P. latifolia.* *Mæench. method.* p. 338.  
*P. canadensis.* *Mæench. weissenst.* 81.  
*Icon. Catesb. car.* 1. t. 34.  
 In New England. *h.* March. *v. v.* From forty to fifty feet high; the buds are strongly covered with a balsamic fluid.
- trepida.* 3. *P. foliis suborbiculatis abrupte acuminatis dentatis basi supra biglandulosis glabris, junioribus sericeis.*—*Willd. sp. pl.* 4. p. 803.  
*P. tremuloides.* *Mich. fl. amer.* 2. p. 243.  
*Icon. Mich. arb.* 3. p. 285. t. 8. f. 1. *Duham. arb. ed. nov.* 2. t. 53.  
 In extensive swamps: Canada to Pennsylvania. *h.* April. *v. v.* From twenty to thirty feet high. Generally known by the name of *American Aspen Tree*.
- monilifera.* 4. *P. foliis subcordato-deltoidibus glabris basi glandulosis, serraturis cartilagineis hamatis pilosiusculis, nervis patulis, petiolis superne compressis, ramis adultis teretibus.*—*Willd. sp. pl.* 4. p. 805.  
*P. glandulosa.* *Mæench. method.* p. 339.  
*P. carolinensis.* *Mæench. weissenst.* 81.  
*Icon. Mich. arb.* p. 295. t. 10. f. 2.  
 In North America. *h.* April. *v. v. in Hortis.* From sixty to seventy feet high. Michaux says that it has

not been observed in any part of North America growing wild.

5. *P. foliis rhomboideis promisse acuminatis circumcirca dentatis glabris, ramulis junioribus pilosis.* *betulifolia.*

*P. hudsonica. Mich. arb. 3. p. 293. t. 10. f. 1.*

*P. nigra. Mich. fl. amer. 2. p. 244.*

On the Hudson- or North-river, and about Lake Ontario. *h.* March. *v. v.* From thirty to forty feet high; petioles and young branches yellow.

6. *P. foliis subrotundo-ovatis acutis inæqualiter sinuato-grandidentatis glabris, junioribus villis, petiolis superne compressis.*—*Mich. fl. amer.* *grandidentata.*

In Canada. *h.* April. *v. v.* From thirty to forty feet high.

7. *P. foliis subrotundo-ovatis deltoideis acutis subcordatis inæqualiter serratis glabris basi glandulosis, petiolis compressis, ramis junioribus angulatis.*—*Willd. sp. pl. 4. p. 803.* *lævigata.*

*P. canadensis. Mich. arb. 3. p. 298. t. 11.*

In high rocky situations: Canada to Virginia, and about the Western lakes. *h.* March. *v. v.* From seventy to eighty feet high. In Virginia it is called *Cotton Tree*.

8. *P. foliis ovato-deltoideis acuminatis obtuse uncinato-dentatis glabris, junioribus amplissimis cordatis, ramis alato-angulosis.*—*Willd. sp. pl. 4. p. 805.* *angulata.*

*P. heterophylla. Du Roi herb. 2. p. 150.*

*P. basamifera. Mill. dict. n. 5.*

Icon. *Mich. arb. 3. p. 302. t. 12.*

In morasses, on the banks of rivers: Virginia to Florida, and on the Mississippi. *h.* April. *v. v.* About eighty feet high; leaves very large; branches brittle. It is known by the name of *Mississippi Cotton Tree*.

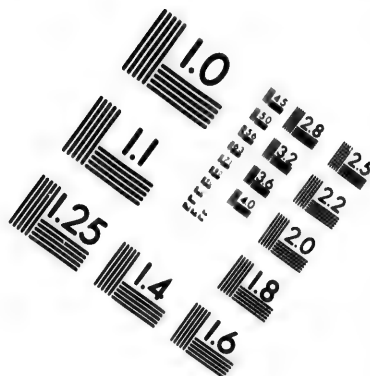
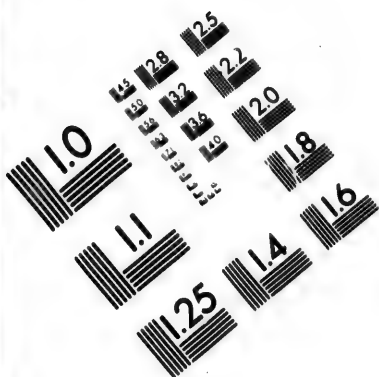
9. *P. foliis subrotundo-ovatis sinu parvo cordatis subauriculatis obtusis uncinato-dentatis, junioribus tomentosis.* *heterophylla.*

*Willd. sp. pl. 4. p. 806.*

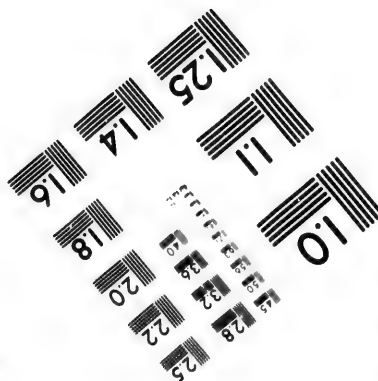
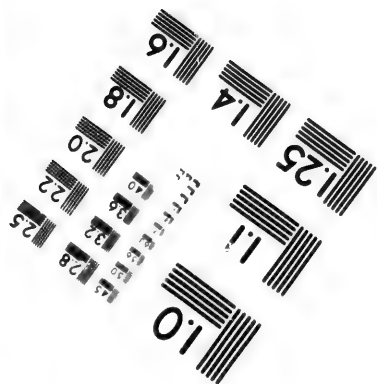
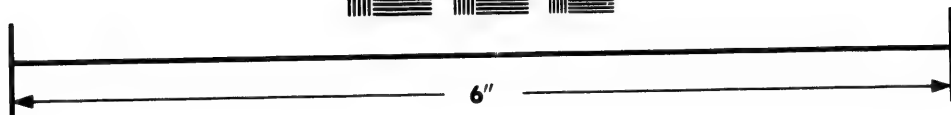
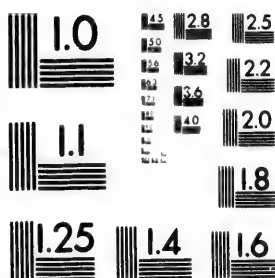
Icon. *Mich. arb. 3. p. 290. t. 9.* *Duham. arb. ed. nov. 2. t. 51.*

In swamps: New York to Carolina, and on the western rivers. *h.* May. *v. v.* About seventy or eighty feet high. The leaves are on their base, properly speaking, more auriculated than cordated.





# IMAGE EVALUATION TEST TARGET (MT-3)



Photographic  
Sciences  
Corporation

23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503

18  
20  
22  
25  
28  
32  
36  
40  
45  
50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100

## 693. MYRICA. Gen. pl. 1510.

*Gale.*

1. *M. foliis cuneato-lanceolatis apice serratis obtusis, amentis masculis imbricatis, squamis acuminatis ciliatis, fructibus squamoso-capitatis.*—*Willd. sp. pl. 4. p. 745.*  
Icon. *Fl. dan.* 327.

In boggy grounds in Canada, and about lakes on high mountains; plentifully on the Broad mountains, Pennsylvania.  $\frac{1}{2}$ . May. *v. v.* A low shrub, like all the following, of an agreeable sweet scent.

*cerifera.*

2. *M. foliis cuneato-lanceolatis apice rariter serratis acutis, amentis masculis laxis, squamis acutis, fructibus globosis minoribus.*—*Willd. sp. pl. 4. p. 745.*  
Icon. *Catesb. car.* 1. t. 69. *Pluk. alm. t. 48. f. 9.*

$\beta$ . *M. foliis lineari-lanceolatis.* *Mich. fl. amer.* 2. p. 228.

In shady dry woods: Virginia to Carolina.  $\beta$ . In Carolina and Florida.  $\frac{1}{2}$ . May, June. *v. v.* A shrub sometimes more than twelve feet high. The berries of this and the following species produce a white vegetable wax, which the inhabitants manufacture into candles equal to those made of bees-wax.

*caroliniensis.*

3. *M. foliis cuneato-oblongis grosse dentatis, amentis masculis laxis, squamis acutis, baccis globosis majoribus.*—*Willd. sp. pl. 4. p. 746.*

*M. cerifera*  $\beta$ . *Mich. fl. amer.* 2. p. 223.

Icon. *Catesb. car.* 1. p. 13.

In wet places about rivers and swamps: New England to Florida.  $\frac{1}{2}$ . May. *v. v.* Not above three or four feet high.

*pensylvanica.*

4. *M. foliis oblongis utrinque acutiusculis integerrimis aut apice rariter subserratis margine revolutis, amentis masculis laxis, squamis acutis, baccis globosis majusculis.*—*Lam. encycl. 2. p. 592.*

Icon. *Duham. arb. ed. nov. 2. t. 55.*

In shady rocky situations: New Jersey and Pennsylvania.  $\frac{1}{2}$ . May. *v. v.* Not above three feet high. It generally is confounded with the preceding, but is a very distinct species.

## 694. BETULA. Gen. pl. 1419.

*populifolia.*

1. *B. foliis deltoidibus longe acuminatis inæqualiter serratis glaberrimis, strobilorum squamis lobis lateralibus subrotundis, petiolis glabris.* *Willd. sp. pl. 4. p. 463.*

*B. acuminata.* Ehrh. *beitr.* 6. p. 98.

*B. lenta.* Du Roi *harbk.* 1. p. 92. Wagh. *amer.* p. 45. t. 29. f. 38.

Icon. *Mich. arb.* 2. p. 139. t. 2. Willd. *arb. t.* 2. f. 5.

In barren rocky woods and old fields: Canada to Pennsylvania. h. June, July. v. v. From thirty to forty feet high. It is known by the name of *White Birch* or *Old Field Birch*.

2. *B. foliis ovatis acutis serratis, petiolis pubescentibus pedunculo brevioribus, strobilorum squamis lobis lateralibus rotundatis.* Willd. *sp. pl.* 4. p. 463.

*B. lutea.* Mich. *arb.* 2. p. 152.

Icon. *Mich. l. c. t.* 5. Willd. *arb. t.* 2. f. 2.

In low grounds: province of Maine, Hudson's river. h. May, June. v. v. From seventy to eighty feet high; generally called *Yellow Birch*.

3. *B. foliis rhombeo-ovatis duplicato-serratis acutis subtus pubescentibus, basi integris, amentis femineis ovatis, squamis villosis, laciniis linearibus æqualibus.*—Willd. *sp. pl.* 4. p. 464.

*B. lanulosa.* Mich. *fl. amer.* 2. p. 181.

*B. rubra.* Mich. *arb.* 2. p. 142.

Icon. *Mich. l. c. t.* 3. Willd. *arb. t.* 2. f. 6.

On the banks of rivers: New Jersey to Carolina. h. May. v. v. About seventy feet high when full grown; the wood very fine. It is generally called *Red Birch*.

4. *B. foliis ovatis acuminatis duplicato-serratis, venis subtus hirsutis, petiolo glabro, amentis femineis pedunculatis nutantibus, squamis lobis lateralibus brevibus suborbiculatis.*—Willd. *sp. pl.* 4. p. 464.

*B. papyrifera.* Mich. *fl. amer.* 2. p. 180.

Icon. *Mich. arb.* 2. p. 133. t. 1. Willd. *arb. t.* 2. f. 1.

In the forests of Canada to a great northern latitude, and as far south as the Hudson's river. h. May, June. v. v. A large tree, highly useful to the natives for constructing their large portable canoes, from which circumstance it is known by the name of *Canoe Birch*.

5. *B. foliis cordato-ovatis argute serratis acuminatis, nervis subtus petiolisque pilosis, strobilorum squamis glabris, lobis obtusis æqualibus elevato-venosis.*—Willd. *sp. pl.* 4. p. 464.

*B. carpinifolia.* Ehrh. *beitr.* 6. p. 99.

*excelsa.*

*nigra.*

*papyracea.*

*lenta.*

*B. nigra. Du Roi herb. 1. p. 93. Wangh. amer. t. 15. f. 34.*

Icon. *Mich. arb. 2. p. 145. t. 4.*

In Canada and throughout the Allegany mountains, to their termination in Georgia. *h. May, June. v. v.* This elegant and large tree is the most interesting of this genus, on account of the excellence of its wood. It is known by the name of *Mountain Mahogany, Black Birch, Cherry Birch, and Sweet Birch*. This last appellation it has from the sweet scent the branchlets give when bruised.

*pumila.*

6. *B. ramis pubescentibus impunctatis, foliis orbiculato-obovatis petiolatis subtus dense pubescentibus, amentis femineis cylindricis.—Willd. sp. pl. 4. p. 467.*

*B. nana. Kalm itin. 2. p. 263.*

Icon. *Jacq. hort. vind. t. 122. Du Roi herb. 1. t. 3. Wangh. amer. t. 29. f. 61.*

In bogs of Canada, and on high mountains of New York and Pennsylvania. *h. May, June. v. v.* A low shrub, not above two or three feet high.

*glandulosa.*

7. *B. ramis glanduloso-punctatis glabris, foliis obovatis serratis basi integerrimis glabris subsessilibus, amentis femineis oblongis, squamis semitrifidis, seminibus orbiculatis angusto-marginatis.—Willd. sp. pl. 4. p. 466.*

In Canada, about Hudson's Bay, and on the borders of lakes on the high mountains of New Jersey and Pennsylvania. *h. May. v. v.* A handsome little shrub, not above two feet high.

*nana.*

8. *B. humillima, glaberrima; foliis orbiculatis crenatis subtus reticulato-venosis, amenti squamis profunde 3-partitis, laciniis oblongis, seminibus orbiculatis subapteris.—Willd. sp. pl. 4. p. 465.*

Icon. *Amœn. acad. 1. t. 1. Fl. dan. 91. Pall. fl. ross. 1. t. 40. Amman. act. 9. t. 14.*

In sphagnous swamps about Hudson's Bay and other parts of Canada. *h. April, May. v. s. in Herb. Lambert.*

695. ALNUS. *Willd. sp. pl. 4. p. 334.*

Betula. *Gen. pl. 1419.*

*glutinosa.*

1. *A. foliis subrotundo-cuneatis obtusis subretusis glutinosis, axillis venarum subtus villosis. Willd. sp. pl. 4. p. 334.*

Betula  
Icon.

On the  
on t  
tree,

3. A. foli  
petio  
stip

A. unc  
Betula

Betula  
In Can

of P  
thre

3. A. foli  
tus

p. 3

Betula  
Betula

Icon.  
In sw

h.  
gro

1. C. fol  
stro

liqu  
pl.

C. vir  
In sh

Ma  
Eu

qua

1. O. fo  
qu

nis

Carp  
Icon.

f.  
In sh

*Betula Alnus*. *Sp. pl.* 1894.

Icon. *Engl. bot.* 1508. *Læs. pruss. t.* 1.

On the banks of rivers, in the interior of Canada, and on the north-west coast.  $\frac{1}{2}$ . April. *v. v.* A large tree, known every where under the name of *Alder*.

2. *A. foliis oblongis acutis basi rotundatis duplicato serratis, petiolis venisque subtus pilosis, axillis venarum nudis, stipulis ovato-oblongis.*

*crispa*

*A. undulata*. *Willd. sp. pl.* 4. p. 336.

*Betula Alnus crispa*. *Mich. fl. amer.* 2. p. 181.

*Betula crispa*. *Ait. kew.* 3. p. 339.

In Canada and on high mountains, in sphagnum swamps, of Pennsylvania.  $\frac{1}{2}$ . April. *v. v.* A shrub not above three or four feet high.

3. *A. foliis obovatis acuminatis venis et axillis venarum subtus pilosis, stipulis ellipticis obtusis.* *Willd. sp. pl.* 4. p. 336.

*serrulata*.

*Betula serrulata*. *Ait. kew.* 3. p. 338.

*Betula rugosa*. *Ehrh. Beitr.* 3. p. 21.

Icon. *Abbot. insect.* 2. t. 92. *Wangh. amer.*

In swamps and on river sides; common every where.

$\frac{1}{2}$ . March. *v. v.* A shrub from six to ten feet high, growing in close thickets.

696. *CARPINUS*. *Gen. pl.* 1449.

1. *C. foliis oblongo-ovatis acuminatis inæqualiter serratis, strobilorum squamis tripartitis, lacinia intermedia obliqua ovato-lanceolata uno latere dentata.*—*Willd. sp. pl.* 4. p. 468.

*americana*.

*C. virginiana*. *Mich. arb.* 3. t. 8.

In shady woods and hedges: Canada to Florida.  $\frac{1}{2}$ .

May. *v. v.* This species of *Hornbeam* resembles the European very much, and its wood is of the same qualities: it rises to about fifteen feet high.

697. *OSTRYA*. *Mich. gen.* 223.

1. *O. foliis ovato-oblongis basi subcordatis acuminatis inæqualiter serratis, strobilis oblongo-ovatis erectis, geminis acutis.*—*Willd. sp. pl.* 4. p. 469.

*virginica*.

*Carpinus virginiana*. *Ait. kew.* 3. p. 363.

Icon. *Abbot. insect.* 2. p. 151. t. 75. *Pluk. alm.* t. 156. f. 1.

In shady woods: New England to Carolina.  $\frac{1}{2}$ . May.

*v. v.* A small tree, of exceeding hard and heavy wood, from which it is generally known under the name of *Iron-wood*; in some parts they call it *Lever-wood*. I observed a variety in Pennsylvania, of which the younger branches were covered with glandulous hairs. It is rather singular to observe that the plate in *Mich. arb.* 3. t. 7. intended for the present plant, represents *Ostrya vulgaris* with hanging cones, which is never the case in the American species.

698. FAGUS. *Gen. pl.* 1448.*sylvatica.*

1. *F. foliis ovatis acuminatis leviter dentatis margine ciliatis basi acutis, nucibus ovato-triquetris obtusis cum mucrone.*—*Willd. sp. pl.* 4. p. 459. *Mich. arb.* 2. p. 170.

Icon. *Mich. l. c.* t. 8.

In extensive forests: New Hampshire to Georgia. *h.* May. *v. v.* This species of beech forms those extensive and beautiful woods generally known by the name of *Beech-woods*, and always gives the indication of a fertile soil. It is distinguished by the name of *White Beech* from the following.

*ferruginea.*

2. *F. foliis ovato-oblongis acuminatis subtus pubescentibus grosse dentatis basi obtusis subcordato-inæqualibus, nucibus acute ovato-triquetris acutissimis.*—*Willd. sp. pl.* 4. p. 460.

Icon. *Mich. arb.* 2. p. 174. t. 9. *Abbot. insect.* 2. t. 75.

In rich level lands, at the foot of mountains: Canada to New England. *h.* May, June. *v. v.* It is distinguished by the inhabitants by the name of *Red Beech*, the wood being of a darker colour than the preceding. Both species are highly useful timber trees.

699. CASTANEA. *Tournef. inst.* t. 352.*vesca: americana.*

1. *C. foliis lanceolatis acuminatis mucronato-serratis utrinque glabris.*—*Willd. sp. pl.* 4. p. 460.

*Fagus Castanea. Hort. cliff.* 447.Icon. *Mich. arb.* 2. p. 156. t. 6.

In the mountainous parts: New England to Carolina. *h.* May, June. *v. v.* The *American Chesnut* differs so little from the European, that no specific distinction can be drawn. It is one of the largest and

most tremel  
to con  
2. *C. foliis*  
tomen  
*Fagus pu*  
Icon. *M*  
f. 44.  
*Pluk.*  
In dry b  
to Ge  
or rar  
and up  
it seld  
very sw  
by the

\* Fructificat

1. *Q. foliis*  
integ  
glande  
*Q. Phello*  
Icon. *M*  
car. 1.  
t. 5. f.  
β. *Q. foliis*  
amer.  
In low s  
to Flor  
to the  
leaves  
gling g  
2. *Q. foliis*  
glabris  
scutell  
p 424  
*Q. Phello*  
On the s  
June,  
eight

most useful trees of the forests, the wood being extremely durable, and in high esteem for posts and rails to construct fences. The nuts are very delicious.

2. *C. foliis oblongis acutis mucronato-serratis subtus albotomentosis.*--*Willd. sp. pl. 4. p. 461.*

*Fagus pumila. Sp. pl. 1418.*

Icon. *Mich. arb. 2. p. 166. t. 7. Wangh. amer. t. 19. f. 44. Abbot. insect. t. 57. Catesb. car. 1. t. 9. Pluk. alm. t. 156. f. 2.*

In dry barren and sandy fields and woods: New Jersey to Georgia. *h.* May, June. *v. v.* This small tree, or rather shrub, grows to the height of thirty feet and upwards in the southern regions, but to the north it seldom exceeds seven or eight feet. The fruit is very sweet and agreeable to eat, and is generally known by the name of *Chinquapin*.

*pumila.*

700. QUERCUS. *Gen. pl. 1446.*

- † *Fructificatio biennis; fructibus subsessilibus; foliis setaceo-mucronatis.* (in specie 1. *muticis*.)

† *Foliis integerrimis.*

1. *Q. foliis deciduis lineari-lanceolatis utrinque attenuatis integerrimis glabris mucronatis, cupula scutellata, glande subrotunda.*--*Willd. sp. pl. 4. p. 423.*

*Q. Phellos sylvatica. Mich. querc. n. 7.*

Icon. *Mich. l. c. t. 12. Mich. arb. 2. t. 12. Catesb. car. 1. t. 16. Abbot. insect. 2. t. 91. Wangh. amer. t. 5. f. 11. Pluk. amalth. t. 441. f. 7.*

- β. *Q. foliis brevioribus. Catesb. car. 1. t. 22. Wangh. amer. t. 5. f. 12.*

In low swampy forests, near the sea-coast: New Jersey to Florida. *h.* May. *v. v.* The *Willow Oak* grows to the height of about fifty or sixty feet. The young leaves are dentated. The variety β. is of low straggling growth.

*Phellos.*

2. *Q. foliis perennantibus coriaceis lanceolatis integerrimis glabris basi attenuatis, apice acutis mucronatis, cupula scutellata, glande subrotunda.*--*Willd. sp. pl. 4. p. 424.*

*Q. Phellos maritima. Mich. querc. t. 13. f. 1.*

On the sea-coast of Virginia and Carolina. *h.* May, June. *v. v.* A low shrubby species, from three to eight feet high.

*humilis.*

*maritima.*

*sericea*.

3. *Q. foliis deciduis lanceolato-oblongis integerrimis subundatis basi attenuatis obtusis, apice dilatatis acutis subtus sericeis, cupula scutellata, glande subglobosa.*—*Willd. sp. pl.* 4. p. 424.

*Q. Phellos pumila. Mich. querc. t.* 13. f. 1. & 2.

*Q. Phellos sericea. Ait. kew. 3. p.* 354. *Abbot. insect. 2. t.* 31.

*Q. pumila. Mich. arb. 2. p.* 84. *t.* 15. *Walt. fl. car.* 234. Near the sea-coast: Carolina to Florida. *h.* May. *v. v.*

The *Running Oak* is perhaps the smallest of all the species, scarcely ever exceeding two feet in height.

*myrtifolia*.

4. *Q. foliis perennantibus coriaceis oblongis integerrimis glabris utrinque acutis supra nitidis margine revolutis.*—*Willd. sp. pl.* 4. p. 424.

In Carolina. *Willdenow. h. +.* Leaves resemble those of *Myrtus communis* with large leaves; the fruit is not known.

*virens*.

5. *Q. foliis perennantibus coriaceis oblongo-ellipticis integerrimis margine revolutis basi obtusis apice acutis muticis subtus stellatim pubescentibus, fructibus pedunculatis, cupula turbinata, squamis abbreviatis, glande oblonga.*—*Willd. sp. pl.* 4. p. 425.

*Q. Phellos β. Sp. pl.* 1412.

*Q. sempervirens. Walt. fl. car.* 234.

Icon. *Mich. querc. t.* 10. & 11. *Mich. arb. t.* 11. *Catesb. car. 1. t.* 16.

Near the sea-coast: Virginia to Florida and Mississippi. *h.* May. *v. v.* The *Live Oak* grows to the height of forty or fifty feet, spreading its branches, when in open places, extremely wide: it yields the finest and most durable ship-timber of any species known; for which reason it is considered one of the most valuable trees in America.

*cinerea*.

6. *Q. foliis perennantibus coriaceis lanceolato-oblongis integerrimis margine revolutis basi attenuatis apice obtusiusculis mucronatis subtus stellatim tomentosis, fructibus sessilibus, cupula scutellata, glande subglobosa.*—*Willd. sp. pl.* 4. p. 425.

*Q. Phellos β. Ait. kew. 3. p.* 354.

*Q. humilis. Walt. fl. car.* 234.

Icon. *Mich. querc. n. 8. t.* 14. *Mich. arb. 2. p.* 80. *t.* 14.

In dry barren soil and pine-forests: Virginia to Georgia. *h.* May, June. *v. v.* The *Upland Willow Oak* is

very  
at ot  
chau  
variet  
doubt

7. *Q. foliis  
teger  
tellat  
Willd.*

Icon.  
p. 78

On the  
and i

*v. v.*  
feet.

specie

8. *Q. foliis  
tis in  
squam*

*pl.* 4.  
Icon. *M.*

β. *Q. foliis*

In South  
*Laur*

*Oak,*  
cordi

almon  
son t

cies,  
of the

9. *Q. foliis  
renac*

*m.*  
p. 43

Icon. *M.*  
On the

*h.*

10. *Q. foliis  
tegr*

*spha*  
Icon. *M.*

On the  
*v. v.*

very variable in size, sometimes not above four feet, at others nearly twenty feet high. The younger Michaux considers *Q. nana* of Willdenow to be only a variety of the present species; which I very much doubt.

7. *Q. foliis deciduis oblongis utrinque acutis mucronatis integerrimis nitidis subtus pubescentibus, cupula scutellata: squamis lato-ovatis, glande subglobosa.*—*Willd. sp. pl. 4. p. 428.*

Icon. *Mich. querc. n. 9. t. 15. & 16. Mich. arb. 2. p. 78. t. 13.*

On the banks of rivers, within the Allegany mountains, and in the western countries thereof. *h.* May, June. *v. v.* The *Shingle Oak* rises to about forty or fifty feet. The younger Michaux considers the wood of this species of little value.

8. *Q. foliis deciduis obovato-lanceolatis acutis basi attenuatis integerrimis utrinque glabris, cupula scutellata: squamis lanceolatis, glande subovata.*—*Willd. sp. pl. 4. p. 427.*

Icon. *Mich. querc. n. 10. t. 17.*

9. *Q. foliis apice obtusis.* *Mich. querc. t. 18.*

In South Carolina and Georgia. *h.* May. *v. v.* The *Laurel Oak*, or as it is sometimes called *Swamp Willow Oak*, is about fifty or sixty feet high: its wood, according to the elder Michaux, is very valuable, and almost preferable to that of *Q. virens*. For what reason the younger Michaux does not mention this species, I cannot tell, unless he considers it only a variety of the preceding; which most certainly is not the case.

†† *Foliis dentatis aut breviter lobatis.*

9. *Q. foliis subrotundo-ovatis subcordatis utrinque glabris remote spinoso-dentatis, cupula hemisphærica: squamis laxis, glande ovata acuta.*—*Willd. sp. pl. 4. p. 43.*

Icon. *Pluk. phytogr. t. 196. f. 3.*

On the north-west coast, about Nootka Sound. *Nee. h. +.*

10. *Q. foliis longe petiolatis ovato-lanceolatis oblongisve integris vel inæqualiter grandidentatis, cupula hemisphærica, glande subglobosa.*—*Mich. arb. 2. p. 87.*

Icon. *Mich. l. c. t. 16.*

On the banks of the Delaware, Pennsylvania. *h.* May. *v. v.* Of this singular species there is but one indivi-

*imbricaria.*

*laurifolia.*

*obtusa.*

*agrifolia.*

*heterophylla.*

dual known, which grows on the plantation of the Messrs. Bartrams near Philadelphia. It probably is only a hybrid plant on that account, and cannot with propriety be considered a genuine species: but the younger Michaux having given a good figure of it, I insert it here on that account only.

*aquatica.*

11. *Q. foliis obovato-cuneiformibus glabris integerrimis apice obsolete trilobis, lobo intermedio majore, cupula hemisphaerica, glande subglobosa.*—*Willd. sp. pl.* 4. p. 441.

*Q. nigra. Sp. pl.* 1413.

*Q. uliginosa. Wagh. amer. t. 6. f. 18.*

Icon. *Mich. querc. n.* 11. *t.* 19. *t.* 20. *f.* 1. 3. 4. 5. & *t.* 21. *Mich. arb.* 2. p. 89. *t.* 17.

In swamps: Maryland to Florida. *h.* May. *v. v.* The *Water Oak* is about forty feet high when full grown; its wood is but little valued. Its leaves vary, according to soil and age, *ad infinitum*. There is scarcely one tree found having leaves like the other, and the same tree is almost as variable in its different branches.

*hemisphaerica.*

12. *Q. foliis perennantibus oblongo-lanceolatis indivisis trilobis sinuatisque, lobis mucronatis, utrinque glabris.* *Willd. sp. pl.* 4. p. 443. *Bartr. itin.* 320.

Icon. *Mich. querc. t.* 20. *f.* 2.

In Georgia and Florida. *h.* May. *v. v. s.* This is probably nothing more than a young plant of *Q. aquatica*, which is so very apt to vary in its foliage.

*nana.*

13. *Q. foliis cuneiformibus glabris apice trilobis basi subsinuatis, lobis divaricatis mucronatis intermedio majore, axillis venarum subtus pubescentibus, cupula scutellata, glande ovato-subglobosa.*—*Willd. sp. pl.* 4. p. 443.

*Q. aquatica elongata. Ait. kew.* 3. p. 357.

Icon. *Abbot. insect.* 2. *t.* 59.

In pine-barrens of South Carolina. *h.* May. *v. v. t. fr.* A low-growing species, always keeping distinct from *Q. aquatica*.

*triloba.*

14. *Q. foliis oblongis cuneiformibus basi acutis, apice subtrilobis, lobis æqualibus mucronatis, intermedio longiore, subtus tomentosis, cupula scutellata, glande depresso-globosa.*—*Willd. sp. pl.* 4. p. 443.

*Q. cuneata. Wagh. amer. p.* 78. *t.* 5. *f.* 14.

Icon. *Mich. querc. n.* 14. *t.* 26. *Abbot. insect.* 1. *t.* 50?

In pine-barrens, near the sea-coast: New Jersey to Geor-

gia. *h. May. v. v.* The *Downy Black Oak* is from twenty to forty feet high, according to Michaux, of very rapid growth, and extremely well calculated for inclosing of lands.

15. *Q. foliis coriaceis cuneiformibus basi subcordatis, apice dilatatis retuso-subtrilobis, junioribus mucronatis, supra glabris, subtus rubiginoso-pulverulentis, cupula turbinata: squamis obtusis scariosis, glande breviovata.—Willd. sp. pl. 4. p. 442.*

*Q. nigra* *β. Sp. pl. 1413.*

*Q. ferruginea. Mich. arb. 2. p. 92.*

*Icon. Mich. querc. n. 12. t. 22. 23. Mich. arb. t. 18. Catesb. car. 1. t. 19. Wangh. amer. t. 5. f. 13. Abbot. insect. t. 58.*

In barren sandy or gravelly woods: New Jersey to Florida. *h. May. v. v.* The *Barren Oak* or *Black Jack* of the Virginians is of low growth, especially in the more northern states: it bears very abundantly and furnishes a fine mast for hogs: the wood is small, but excellent for fuel.

16. *Q. foliis obovato-oblongis levissime sinuatis subtus pubescentibus, lobis oblongis obtusis obsolete denticulatis setaceo-mucronatis, cupula scutellata, glande depresso-globosa.—Willd. sp. pl. 4. p. 444.*

*Q. tinctoria angulosa. Mich. querc. n. 13. t. 24.*

*Q. discolor. Willd. nov. act. soc. nat. scrut. berol. 3. p. 399.*

*Q. velutina. Lam. encycl. 1. p. 173*

In all large woods, particularly in the mountainous parts: New England to Georgia. *h. May. v. v.* The *Black Oak*, or *Quercitron*, is one of the largest trees of the American forest, and highly valuable on account of its timber as well as its bark, which is so very superior in tanning to any other species of oak.

17. *Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis oblongis dentatis setaceo-mucronatis, cupula turbinata, glande ovata.—Willd. sp. pl. 4. p. 444.*

*Q. tinctoria sinuosa. Mich. querc. n. 13. t. 25.*

*Icon. Abbot. insect. 2. p. 111. & 56. Pluk. alm. t. 54. f. 5.*

In large forests: Pennsylvania to Carolina. *h. May. v. v.* Resembles the preceding, and likewise *Q. coccinea*. The young expanding leaves are covered with

*nigra.*

*tinctoria.*

*discolor.*

a white down on both sides, which is not the case with either *Q. rubra* or *Q. coccinea*. Whether the figure of *Q. tinctoria* Mich. arb. 2. t. 23. belongs to this or the preceding species, I have not been able to decide.

††† *Folliis profunde sinuatis lobatisque.*

*coccinea.*

18. *Q. foliis longe petiolatis oblongis profunde sinuatis glabris, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata insigniter squamosa, glande breviovata.*—Willd. sp. pl. 4. p. 446.

Icon. Mich. querc. n. 18. t. 31. 32. Mich. arb. 2. p. 116. t. 23. Wagh. amer. t. 4. f. 9.

In fertile woods: New England to Georgia. h. May. v. v. The *Scarlet Oak* is a very large tree, and changes its leaves in autumn to a bright red, which give the woods a very picturesque appearance.

*ambigua.*

19. *Q. foliis sinuatis glabris basi acutis, sinubus subacutis, cupula subscutellata, glande turgide ovata.*—Mich. arb. 2. p. 120.

Icon. Mich. l. c. t. 24.

On Hudson's Bay and in Nova Scotia. Michaux. h. May. +. This is an intermediate species, between the preceding and following one, and probably only a hybrid plant. Michaux calls it *Gray Oak*.

*rubra.*

20. *Q. foliis longe petiolatis oblongis glabris obtuse sinuatis, lobis acutiusculis dentatis setaceo-mucronatis, cupula scutellata sublævi, glande subovata turgida.*—Willd. sp. pl. 4. p. 445.

Icon. Mich. querc. n. 20. t. 35. 36. Mich. arb. 2. p. 126. t. 26. Wagh. amer. t. 3. f. 7. Pluk. alm. t. 54. f. 4. Du Roi herb. 2. t. 5. f. 2.

In fertile forests: Canada to Pennsylvania, and in the Alleghany mountains. h. May. v. v. This large and fine timber tree is exclusively known by the name of *Red Oak*, which name is likewise applied to *Q. tinctoria*, *coccinea*, *falcata*, *palustris*, *phellos*, *ambigua*, and *aquatica*, in several parts of America.

*Catesbei.*

21. *Q. foliis brevissime petiolatis basi cuneatis oblongis profunde sinuatis glabris, lobis tribus quinisque divaricatis dentatis acutis setaceo-mucronatis, cupula turbinata ampla: squamis obtusis marginalibus introflexis, glande subglobosa.*—Willd. sp. pl. 4. p. 446.

Icon. Mich. querc. n. 17. t. 29. 30. Mich. arb. 2. p. 101. t. 20. Catesb. car. 1. t. 23.

In pine-barrens : Carolina and Georgia. *h. May. v. v.*  
The *Barren Scrub Oak* is of shrubby growth, not above fifteen feet high, and occurs in the most sterile soil of those countries in great abundance.

22. *Q. foliis longe petiolatis basi obtusis subtus tomentosis trilobis sinuatisve, lobis subfalcatis setaceo-mucronatis, terminali elongato, cupula crateriformi, glande globosa.*—*Mich. fl. amer. 2. p. 199.*

*falcata.*

*Q. elongata. Willd. sp. pl. 4. p. 444.*

*Icon. Mich. querc. n. 16. t. 28. Mich. arb. 2. p. 104. t. 21.*

In sandy soil, near the sea-coast : New Jersey to Georgia. *h. May. v. v.* A very large tree, commonly called *Spanish Oak*. In the southern states it is known by the name of *Red Oak*.

23. *Q. foliis longe petiolatis oblongis profunde sinuatis glabris, axillis venarum subtus villosis, lobis divaricatis dentatis acutis setaceo-mucronatis, cupula scutellata lævi, glande subglobosa.*—*Willd. sp. pl. 4. p. 446.*

*palustris.*

*Icon. Mich. querc. n. 19. t. 33. 34. Mich. arb. 2. p. 123. t. 25. Du Roi herb. 2. t. 5. f. 4. Wagh. amer. t. 5. f. 10.*

In low swampy woods : New England to Pennsylvania, and in Illinois. *h. May. v. v.* The *Swamp Spanish Oak* or *Pin Oak* is a large tree; leaves rather small and handsomely divided; the acorns small, and generally in great abundance.

24. *Q. foliis longe petiolatis obovato-cuneiformibus tri-quinquelobisve margine integerrimis subtus cinereo-tomentosis, lobis setaceo-mucronatis, cupula subturbinate, glande subglobosa.*—*Mich. fl. amer. 2. p. 199.*

*Banisteri.*

*Q. ilicifolia. Willd. sp. pl. 4. p. 447. Wagh. amer. 79. t. 6. f. 17.*

*Icon. Mich. querc. n. 15. t. 27. Mich. arb. 2. p. 96. t. 19. Abbot. insect. 2. t. 79?*

In dry barren fields and on the mountains : New Jersey to Virginia. *h. May. v. v.* This shrub, about four or six feet high, covers large tracts of ground wherever it occurs, called *Oak-barrens* : it is known by the name of *Bear Oak*, *Black Scrub Oak*, and *Dwarf Red Oak*.

\*\* *Fructificatio annua; fructibus pedunculatis; foliis muticis.*

† *Foliis lobatis.*

*obtusiloba.* 25. *Q. foliis oblongis sinuatis basi cuneatis subtus pubescentibus, lobis obtusis superioribus dilatatis bilobis, cupula hemisphærica, glande ovali.*—*Mich. fl. amer.* 2. p. 194.

*Q. stellata. Willd. sp. pl.* 4. p. 452. *Wangh. amer.* 78. t. 6. f. 15.

Icon. *Mich. querc. n.* 1. t. 1. *Mich. arb.* 2. t. 4.

In most forests: Canada to Florida. *h.* May. *v. v.* The *Upland White Oak* or *Iron Oak* is a spreading tree about fifty or sixty feet high; its timber is of great value in ship-building.

*macrocarpa.* 26. *Q. foliis subtus tomentosis profunde lyratim sinuato-lobatis, lobis obtusis repandis, superioribus dilatatis, cupula craterata; squamis superioribus setosis, glande turgide ovata.*—*Willd. sp. pl.* 4. p. 453.

Icon. *Mich. querc. n.* 2. t. 2. *3.* *Mich. arb.* 2. t. 3.

Within the mountains, on dry slate or lime-stone hills: Kentucky, Tennessee, Illinois, Mississippi, and Missouri. *h.* May. *v. v.* A large tree, called *Overcup White Oak* by the inhabitants; the fruit is the largest of the American species; the wood very excellent.

*olivæformis.* 27. *Q. foliis oblongis glabris subtus glaucis profunde inæqualiter sinuato-pinnatifidis, fructu elliptico-ovato, cupula profunde craterata superne crinita, glande elliptico-ovali.*—*Mich. arb.* 2. p. 32.

Icon. *Mich. arb.* 2. t. 2.

On the banks of Hudson's river and the western parts of New York. *Michaux.* In Pennsylvania and Virginia, on iron-ore hills. *Ph.* *h.* May. *v. v.* The *Mossy-cup Oak* is a large tree; the foliage handsome, and somewhat resembling the preceding species.

*lyrata.* 28. *Q. foliis brevissime petiolatis glabris lyrato-sinuatis summitate dilatatis, lobis oblongis acutis superioribus angulato-truncatis, cupula depresso-globosa tuberculoso-muricata glande globosa subtecta.*—*Willd. sp. pl.* 4. p. 453. *Walt. fl. car.* 235.

Icon. *Mich. querc. n.* 3. t. 4. *Mich. arb.* 2. p. 42. t. 5.

In swamps: Carolina to Florida, and on the Mississippi. *h.* May. *v. s.* This oak is from eight to fifteen feet

high,  
*Swinn*  
is almi

29. *Q. foliis*  
bus, l  
attenu  
tuber  
pl. 4.

Icon. *M*  
*Du R*

*Catesb*

β. *Q. foliis*  
t. 5. f.

In fertile  
sylvan

*Oak* is

genus

immer

30. *Q. foliis*  
tibus g  
apice c  
ovata-

*Q. Prinus*

Icon. *M*

*Roi har*

*Catesb*

In low sh

vania t

useful

*Oak, S*

*Oak.*

31. *Q. foliis*  
toment

inæqua

bus ge

termina

ovata-

*Q. Prinus*

*Q. Prinus*

In low we

*v. v.*

tree; t

sweet.

high, and known under the names *Over-cup Oak*, *Swamp-post Oak*, and *Water White Oak*. The fruit is almost entirely covered with the cupula or calyx.

29. *Q. foliis oblongis pinnatifido-sinuatis subtus pubescentibus, lobis lineari-lanceolatis obtusis integerrimis basi attenuatis, fructibus pedunculatis, cupula subcraterata tuberculosa, basi plana, glande ovata.*—*Willd. sp. pl.* 4. p. 449.

*alba.*

Icon. *Mich. querc. n.* 4. t. 5. *Mich. arb.* 2. p. 13. t. 1. *Du Roi herb.* 2. t. 5. f. 5. *Wangh. amer. t.* 3. f. 6. *Catesb. car.* 1. t. 21. f. 2.

- β. *Q. foliis levissime lobatis utrinque viridibus.* *Mich. l. c.* t. 5. f. 2.

*repanda.*

In fertile forests: New England to Carolina. β. Pennsylvania and Carolina. ♀. May. *v. v.* The *White Oak* is one of the most abundant and useful of this genus in America; it grows in the middle states to an immense size.

†† *Foliis integris, dentatis.*

30. *Q. foliis longe petiolatis obovatis acutis subtus pubescentibus grosse dentatis, dentibus subæqualibus dilatatis apice callosis, cupula craterata basi attenuata, glande ovata.*—*Willd. sp. pl.* 4. p. 439.

*Prinus.*

*Q. Prinus palustris.* *Mich. fl. amer.* 2. p. 196.

Icon. *Mich. querc. n.* 5. t. 6. *Mich. arb.* 2. t. 7. *Du Roi herb.* 2. t. 6. f. 3. *Wangh. amer. t.* 4. f. 8. *Catesb. car.* 1. t. 18. *Pluk. alm. t.* 54. f. 3.

In low shady woods and on the banks of rivers: Pennsylvania to Florida. ♀. May. *v. v.* This large and useful tree is known by the name of *Chesnut White Oak*, *Swamp Chesnut Oak*, and, to the south, *White Oak*. The fruit is large, and of a sweet taste.

31. *Q. foliis brevi-petiolatis oblongo-obovatis subtus albotomentosis grosse dentatis basi integerrimis, dentibus inæqualibus dilatatis acutiusculis apice callosis, fructibus geminis longe pedunculatis, pedunculo in setam terminante, cupula hemisphærica, glande oblongo-ovata.*—*Willd. sp. pl.* 4. p. 440.

*bicolor.*

*Q. Prinus tomentosa.* *Mich. querc. n.* 5. t. 9. f. 2.

*Q. Prinus discolor.* *Mich. arb.* 2. p. 46. t. 6.

In low wet woods: Pennsylvania to Carolina. ♀. May. *v. v.* The *Swamp White Oak* grows to a very large tree; the acorn, as of most of the chesnut oaks, is sweet.

- montana*. 32. *Q. foliis modice petiolatis latius obovatis oblongis subtus albo-tomentosis supra nitidis grosse dentatis basi obtusis inæqualibus, dentibus subæqualibus obtusissimis brevibus, fructibus geminis brevi-pedunculatis, cupula hemisphærica, squamis tuberculatis rugosis, glande ovata.*—*Willd. sp. pl.* 4. p. 440.

*Q. Prinus monticola. Mich. fl. amer.* 2. p. 196.

Icon. *Mich. querc. n.* 5. t. 7. *Mich. arb.* 2. t. 8. *Abbot. insect.* 2. t. 82.

In rocky situations on the mountains: New England to Carolina. *h.* May. *v. v.* The *Rock Chesnut Oak* rises to about sixty feet; its timber is in high value, and its bark tans extremely well.

- Castanea*. 33. *Q. foliis longe petiolatis oblongo-lanceolatis basi obtusis acuminatis subtus tomentosis grosse dentatis, dentibus subæqualibus dilatatis acutis apice callosis, cupula hemisphærica, glande ovato-subglobosa.*—*Willd. sp. pl.* 4. p. 441.

*Q. Prinus acuminata. Mich. fl. amer.* 2. p. 196.

Icon. *Mich. querc. n.* 5. t. 8. *Mich. arb.* 2. p. 61. t. 9.

In the Allegany mountains and on the banks of the Delaware. *h.* May. *v. v.* The *Yellow Oak* is a beautiful and large tree; the acorns are eatable.

- Chinquapin*. 34. *Q. foliis brevi-petiolatis obovatis basi acutis grosse dentatis subtus glaucis, dentibus subæqualibus dilatatis apice callosis, cupula hemisphærica, glande ovata.*

*Q. Prinus Chinquapin. Mich. arb.* 2. p. 65.

*Q. prinoides. Willd. sp. pl.* 4. p. 440.

Icon. *Mich. querc. n.* 5. t. 9. f. 1. *Mich. arb.* 2. t. 10. *bona.*

On dry mountain lands: Pennsylvania to Carolina. *h.* May. *v. v.* The *Chinquapin* or *Dwarf Chesnut Oak* is a low-growing shrub, not exceeding three or four feet in height; it is highly ornamental when in full bloom.

### 701. CORYLUS. *Gen. pl.* 1450.

- americana*. 1. *C. foliis subrotundis cordatis acuminatis, calycibus fructus subrotundo-campanulatis nuce subglobosa majoribus, limbo dilatato dentato-serrato.*—*Willd. sp. pl.* 4. p. 471.

Icon. *Wangh. amer. t.* 29. f. 63.

In low shady woods: Canada to Florida. *h.* March, April. *v. v.* The *Hazel Nut* or *Wild Filbert* is a shrub from four to eight feet high; the nuts very fine.

2. *C. foliis oblongo-ovatis acuminatis, stipulis lineari-lanceolatis, calycibus fructus campanulato-tubulosis nucem majoribus bipartitis, laciniis inciso-dentatis. Willd. sp. pl. 4. p. 471.*

Icon. *Willd. arb. t. 1. f. 2.*

In the mountains: Canada to Carolina. *h. v.*

This species is not above four or five feet high.

*rostrata.*

702. LIQUIDAMBAR. *Gen. pl. 1452.*

1. *L. foliis palmatis, lobis acuminatis, serratis, sinibus bases venarum villosis.—Willd. sp. pl. 4. p. 475.*

Icon. *Mich. arb. 3. p. 194. t. 4.*

In low woods, on fertile soil: New England to Florida, and in all the western countries. *h. v.*

The *Sweet-gum Tree* is sometimes found of an immense size, particularly in the southern states; its wood is of an exquisite hard texture and fine grain, and furniture made of it has a very handsome appearance.

*styraciflua.*

703. COMPTONIA. *Gen. pl. 1764.*

1. *C. foliis longo-linearibus alternatim crenato-pinnatifidis.—Willd. sp. pl. 4. p. 320.*

*Liquidambar peregrinum. Syst. veg. 860.*

*Liquidambar asplenifolium. Sp. pl. 1418.*

Icon. *Pluk. alm. t. 100. f. 6.*

In sandy, stony, or slaty woods: New England to Virginia. *h. v.* March, April. *v. v.* The *Sweet-fern Bush* rises to about three or four feet high; the whole of the plant when rubbed has a strong resinous scent.

*asplenifolia.*

704. PLATANUS. *Gen. pl. 1451.*

1. *P. foliis quinquangularibus obsolete lobatis dentatis, ramulis albescentibus.—Willd. sp. pl. 4. p. 474.*

Icon. *Catesb. car. 1. t. 56. Duham. orb. t. 35. Mich. arb. 3. t. 3.*

On the banks of rivers: Canada to Florida, and in Louisiana. *h. v.* May. *v. v.* This tree is known by the name of *Button-wood*, *Water Beech*, *Sycamore* and *Plane Tree*; in Canada *Cotton Tree*. It is perhaps the largest tree in North America: on the fertile banks of the Ohio and the Mississippi there are trees measuring from ten to sixteen feet in diameter.

*occidentalis.*

## 705. JUGLANS. Gen. pl. 1446.

\* *Amentis masculis simplicibus, polyandris*: Walnuts.*nigra.*

1. *J. foliolis numerosis ovato-lanceolatis serratis subcordatis superne angustatis, subtus petiolisque subpubescentibus, fructibus globosis scabro punctatis, nuce corrugata.*—*Willd. sp. pl.* 4. p. 456.

Icon. *Mich. arb.* 1. p. 157. t. 1. *Jacq. ic. rar.* 1. t. 191. *Wangh. amer. t.* 8. f. 20. *Catesb. car.* 1. t. 67.

In fertile woods: New England to Florida. *h.* April, May. *v. v.* The *Black Walnut* is, like all the following, a tree of large size, and its nuts are eaten by men and several species of animals. The wood is put to various mechanical and æconomical uses; for which information I refer to the different authors on forest trees, but particularly to the works of the younger Michaux.

*cinerea.*

2. *J. foliolis numerosis lanceolatis serratis basi rotundatis subtus pubescenti-mollibus, petiolis villosis, fructibus oblongo-ovatis apice mammosis viscidis longe pedunculatis, nuce oblonga acuminata insigniter insculpto-scabrosa.*—*Willd. sp. pl.* 4. p. 456.

*J. cathartica.* *Mich. arb.* 1. p. 165.

*J. oblonga.* *Mill. dict. n.* 3. *Retz. obs.* 1. p. 10.

Icon. *Mich. arb.* 1. t. 2. *Jacq. ic. rar.* 1. t. 192. *Wangh. amer. t.* 9. f. 21.

Near the sea-coast: Canada to Virginia, and on the Allegany mountains. *h.* April, May. *v. v.* It is known under the name of *Butter Nut*, *Oil Nut*, and *White Walnut*. The younger Michaux has altered the adopted name, and substituted one indicating the medicinal use made of it, which certainly would be a very good name if the old one had not been so long established.

\*\* *Amentis masculis compositis, tetrandris*. Hickory.*olivæformis.*

3. *J. foliolis numerosis (13—15) lanceolatis subfalcatis serratis, impari petiolato, fructibus oblongis tetragonis, nuce olivæformi lævi.*—*Willd. sp. pl.* 4. p. 457.

*J. angustifolia.* *Ait. kew.* 3. p. 361.

*J. Pecan.* *Muhl. in nov. act. soc. nat. scrut. berol.* 3. p. 392.

Icon. *Mich. arb.* 1. t. 3.

On the banks of the Ohio, Mississippi, and other rivers

in Upper Louisiana. *h.* April, May. *v. v.* It is generally known under the name of *Pecan* or *Illinois Nut*; the fruit is small, with a very thin shell, and a delicious kernel.

4. *J. foliolis subnovenis obovato-lanceolatis acuminatis serratis subtus pubescentibus, impari subsessili basi attenuato, fructibus subrotundis 4-carinatis, nuce subglobosa leviter compressa lævi longe mucronata.*—*Willd. sp. pl.* 4. p. 457.

*J. mucronata. Mich. fl. amer.* 2. p. 192.

*J. laciniosa, Mich. arb.* 1. p. 199.

Icon. *Mich. arb.* 1. t. 8.

In fertile valleys of the Allegany mountains. *h.* April, May. *v. v.* It is called *Thick Shell-bark Hickory*, *Springfield* or *Glocester Nut*. The nuts are large and fine tasted; the bark is torn lengthways in long loose fragments, as in the following species.

5. *J. foliolis subseptenis longe petiolatis oblongo-lanceolatis acuminatis argute serratis, subtus villosis, impari sessili, amentis filiformibus glabris, fructibus depressoglobosis, nuce compressa obliqua.*—*Mich. fl. amer.* 2. p. 193. *Sp. pl.* 1415.

*J. compressa. Willd. sp. pl.* 4. p. 458. *Muhl. in nov. act. soc. nat. scrut. berol.* 3. p. 390.

*J. squamosa. Mich. arb.* 1. p. 190.

Icon. *Mich. arb.* 1. t. 7. *Pluk. alm.* t. 309. f. 2. *Gært. carp.* 2. t. 89. sub *J. compressa. Catesb. car.* 1. t. 38.

In shady fertile forests: New England to Carolina, and throughout the Allegany mountains. *h.* April, May. *v. v.* This useful tree is known by the name of *Shell-bark Hickory*, *Shag-bark* and *Scaly-bark Hickory*, on account of its bark, which is torn in loose fragments like the preceding: its nuts are white, with a thin shell and very sweet and large kernel.

6. *J. foliolis subnovenis oblongo-lanceolatis acuminatis leviter serratis subtus pubescentibus scabris, impari subpetiolato, amentis filiformibus longissimis tomentosis, fructibus subglobosis lævibus, pericarpio crassissimo, nuce subsexangulata putamine crassa durissima.*—*Mich. fl. amer.* 2. p. 192.

*J. alba. Willd. sp. pl.* 4. p. 457.

Icon. *Mich. arb.* 1. p. 186. t. 6.

In fertile forests: New England to Virginia, and on the Allegany mountains. *h.* April, May. *v. v.* This

*sulcata.*

*alba.*

*tomentosa.*

is known under the name of *Mocker Nut*, *White-heart Hickory* or *Common Hickory*. The wood is excellent for mechanical purposes, and particularly esteemed as fire-wood; but the nuts are very hard, with but little kernel in them.

*amara.*

7. *J. foliolis subnoventis ovato-oblongis acuminatis argute serratis utrinque glabris, impari breviter petiolato, fructibus subglobosis, superne suturis prominulis, nuce lævi subglobosa mucronata, putamine fragili.*—*Mich. arb. 1. p. 177.*

In dry fertile woods: New England to Maryland, and on the mountains. *h. May. v. v.* This is known by the name of *Bitter Nut*, *White* or *Swamp Hickory*. The nuts are small, the kernel bitter.

*poxcina.*

8. *J. foliolis subseptenis lanceolatis acuminatis serratis utrinque glabris, impari subsessili, fructibus pyriformibus vel globosis, nuce lævi durissima.*—*Mich. arb. 1. p. 206.*

*obcordata.*

- α. J. fructu globoso, nuce obcordata.*—*Mich. arb. 1. p. 206. t. 9. f. 3. & 4.*

*ficiformis.*

- β. J. fructu turbinato, nuce oblonga.*—*Mich. arb. 1. p. 209. t. 9. f. 1. & 2.*

*J. glabra. Willd. sp. pl. 4. p. 458.*

In dry fertile forests: New England to Virginia. *h. May. v. v.* It is known by the name of *Pig* or *Hog Nut*, also *Broom Hickory*. The natives and inhabitants make brooms of it by slitting the very tough wood into narrow slips, which finally form a very good and durable broom. The nuts are very small and extremely hard.

*aquatica.*

9. *J. foliolis subundenis angusto-lanceolatis acuminatis subserratis sessilibus, impari breviter pedicellato, fructibus pedunculatis ovatis suturis 4. prominulis, nuce subdepressa rubiginosa tenera.*—*Mich. arb. 1. p. 182. Icon. Mich. arb. 1. t. 5.*

In swamps and rice-fields: South Carolina and Georgia. *h. May. v. s.* Michaux calls it *Water Bitter-nut Hickory*. The fruit is extremely bitter.

*myristicæformis.*

10. *J. foliolis quinis ovato-lanceolatis acuminatis serratis glabris, impari subsessili, fructibus ovalibus rugoso-scarbris, nuce ovali brevi-acuminata sulcato-lineata durissima.*—*Mich. arb. 1. p. 211.*

*Icon. Mich. arb. 1. t. 10.*

In Sou  
Hick  
and t

1. *M. foli  
serr  
cylind  
Icon. M  
f. 35  
In ferti  
v. v.  
the w*

\* 1

1. *P. foliis  
glauc  
tibus,  
obova  
pl. 4.  
Abies b  
Icon. L  
In Cana  
legan  
May.  
of *B  
Silver  
fifty f**

2. *P. foliis  
glauc  
oblon  
cunea  
latis.  
On high  
mour  
in He  
inhab*

DICLINIA AMENTACEÆ. Juglans.

639

In South Carolina. *Michaux.* *h.* +. The *Nutmeg Hickory* is but little known; the nuts are very hard, and brown with white lines.

706. MORUS. *Gen. pl.* 1424.

1. *M. foliis cordatis ovatis acuminatis trilobisve, æqualiter serratis scabris, subtus pubescentibus, amentis femineis cylindricis.*—*Willd. sp. pl.* 4. p. 369.

*rubra.*

*Icon. Mich. arb.* 3. p. 232. *t.* 10. *Wangh. amer. t.* 15. *f.* 35. *Pluk. alm. t.* 246. *f.* 4.

In fertile valleys throughout the middle States. *h.* June. *v. v.* The *Red Mulberry* is a very handsome tree, and the wood useful and very durable.

III. CONIFERÆ.

707. PINUS. *Gen. pl.* 1451.

\* *Foliis solitariis, basi distinctis. Abies.*

1. *P. foliis solitariis planis emarginatis integrisve subtus glaucis subpectinatis supra suberectis recurvato-patentibus, conis cylindraceis erectis, bracteolis abbreviatis obovatis longe mucronatis subserrulatis.*—*Willd. sp. pl.* 4. p. 504.

*Balsamea.*

*Abies balsamifera. Mich. fl. amer.* 2. p. 207.

*Icon. Lambert. monogr. p.* 48. *t.* 31. *Mich. arb.* 3. *t.* 14.

In Canada, Nova Scotia, New England, and on the Alleghany mountains, in high and cold situations. *h.* May. *v. v.* This elegant tree is known by the name of *Balsam of Gilead Fir*, *Fir Balsam*, and *American Silver Fir*. It grows to the height of about forty or fifty feet.

2. *P. foliis solitariis planis brevioribus emarginatis subtus glaucis subsecundis supra crebris erectis, conis ovato-oblongis erectis, bracteolis elongatis reflexis oblongo-mucronatis emarginatis brevi-mucronatis inciso-denticulatis.*

*Fraseri.*

On high mountains of Carolina. *Fraser.* On the Broad-mountains, Pennsylvania. *Ph. h.* May. *v. v.*; *v. s.* in *Herb. Lambert.* This species, known among the inhabitants by the name of *Double-balsam Fir*, re-

resembles the preceding in several respects, but differs at first sight in being a smaller tree, the leaves shorter and more erect, and the cones not one fourth the size. Messrs. Frasers introduced this tree into England a few years ago.

*taxifolia.*

3. *P. foliis solitariis planis subdistichis, conis oblongis, antheris didymis.*—*Lambert. monogr. p. 51. t. 33.*

On the banks of the Columbia. *M. Lewis.* On the north-west coast. *Menzies. h. v. s. in Herb. Lewis.* This elegant and tall tree has some resemblance to the following one, but the leaves are more than twice the length. I have among my specimens two varieties, or probably distinct species, which for want of fructification I cannot decide: one has acute leaves, green on both sides; the other emarginate leaves, glaucous underneath.

*canadensis.*

4. *P. foliis solitariis planis denticulatis subdistichis, strobilis ovatis terminalibus vix folio longioribus.* *Lambert. monogr. p. 50. t. 32.*

*P. americana. Du Roi herb. 2. p. 107.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 137. t. 13. Wange. amer. t. 15. f. 36.*

In the most northern regions of Canada and on the highest mountains, as far south as Carolina. *h. May. v. v.* The *Hemlock Spruce* is a very elegant tree, and grows in some situations to an enormous size; its bark is a fine substitute for oak-bark in tanning.

*nigra.*

5. *P. foliis solitariis tetragonis undique sparsis erectis strictis strobilis ovatis, squamis ellipticis margine undulatis apice eroso-denticulatis.*—*Lambert. monogr. p. 41. t. 27.*

*P. mariana. Du Roi herb. 2. p. 107.*

*P. denticulata. Mich. fl. amer. 2. p. 206.*

Icon. *Lambert. l. c. Mich. arb. 1. t. 11. Mill. ic. 1. t. 1.*

From the more northern parts of Canada to Carolina, throughout the tracts of high mountains. *h. May. v. v.* The *Black Spruce* or *Double Spruce* is, besides its great mechanical use, the tree of which that wholesome beverage calld *Spruce Beer* is made.

*rubra.*

6. *P. foliis solitariis subulatis, strobilis oblongis obtusis, squamis rotundatis subbilobis margine integris.* *Lambert. monogr. p. 43. t. 28.*

*Abies pectinata. Lamarck. encycl. 6. t. 523.*

Icon.  
In No.  
This  
cedi  
dens

7. *P. foliis*  
dric  
mon  
*P. laxa*  
*P. cana*  
Icon.  
mer.  
In sim  
The  
Spru  
unfr

\*\*  
8. *P. foliis*  
nicis  
latis  
*P. virgi*  
Icon. A  
In dry l  
v. v.  
midd  
bran  
nigh  
was  
in h  
and  
the y  
taken  
Mr.  
spect  
Mich  
in t  
Mr.  
are s  
notic  
vent  
belie  
there  
on t  
beloi

Icon. *Lambert. l. c.*

In Nova Scotia and about Hudson's Bay.  $\frac{1}{2}$ . May. v. s.

This species of *Spruce Fir* is nearly related to the preceding. It is, as yet, a very scarce tree in the gardens.

7. *P. foliis solitariis tetragonis incurvis, strobilis subcylindricis laxis, squamis obovatis integerrimis.* *Lambert. monogr. p. 39. t. 26.*

*P. laxa. Ehrh. beitr. 3. p. 24.*

*P. canadensis. Du Roi herb. 2. t. 124.*

Icon. *Lambert. l. c. Mich. arb. 1. t. 12. Wagh. amer. 5. t. 1. f. 2.*

In similar situations with *P. nigra.*  $\frac{1}{2}$ . May. v. v.

The *White Spruce* is of lower growth than the *Black Spruce*, its wood not so good as that, and its branches unfit for making spruce beer.

\*\* *Foliis pluribus, basi vaginatis.* Pinus.

8. *P. foliis brevibus geminis, strobilis recurvis oblongo-conicis longitudine foliorum, aculeis squamarum subulatis rectis.*—*Lambert. monogr. p. 18. t. 13.*

*P. virginiana. Du Roi herb. 2. p. 35.*

Icon. *Lambert. l. c. Mich. arb. 1. t. 4.*

In dry barren soil: New Jersey to Carolina.  $\frac{1}{2}$ . May. v. v. The *Jersey Pine*, *Pitch* or *Scrub Pine*, is of middle size, straggling growth, and full of resin. Its branches are tougher than any other pine I know, and might be used for several useful purposes if its wood was not so apt to an early decay. A. B. Lambert, Esq. in his magnificent Monograph on this interesting and useful genus, made similar observations, which the younger Michaux in his *Arbres forestiers*, p. 60. has taken up as a point of criticism. On this subject Mr. Lambert favoured me with his observations respecting this and some other remarks made by Mr. Michaux, which I think proper here to insert; it is in the following words: "The criticisms made by Mr. Michaux on my 'Description of the genus Pinus' are so inaccurate, that I did not think them worth my notice before, nor should I now, were it not to prevent Mr. Pursh from being misled by them, though I believe he is already well aware of their fallacy; I shall therefore beg of him to insert a few observations on the different subjects to which they respectively belong, if they meet with his approbation and con-

*alba.*

*inops.*

currence. Whether Mr. Michaux has been successful in changing the specific names of the pines, I shall leave to future botanists to decide: but I must correct him in respect to the *specific name* he has added to my own, which certainly does not belong to it." The observation which Mr. Lambert makes in this place is, "Michaux's observations relative to the branches of *P. inops* being not fit for hoops appear to be mere matter of opinion, as well as mine, without experience."

*resinosa.*

9. *P. foliis elongatis geminatis, vaginis elongatis, strobilibus ovato-conicis basi rotundatis subsolitariis folio dimidio brevioribus, squamis medio dilatatis inermibus.*—*Lambert. monogr. p. 20. t. 14.*

*P. rubra. Mich. arb. p. 45. t. 1.*

In Canada and the western parts of New York. *h. v. v.*

This tree, called by Aiton *Pitch Pine*, is generally known in its native country by the name of *Norway Pine*; sometimes, particularly among the Canadian French, *Red Pine*. It grows in close forests, is very tall, and its bark is remarkably smooth and red; the timber is very heavy, for which reason it is rejected for masts, though its size and shape are apparently very recommendable for that purpose. Mr. Lambert in his note, quoted above, observes, "In confirmation of what I have said relative to the timber of *P. resinosa*, Mr. Michaux mentions the exportation of it being much diminished, as it has been found to contain too much sap; but he still thinks, from some planks he has seen, it is without foundation."

*Banksiana.*

10. *P. foliis brevibus geminatis rigidis divaricatis obliquis, strobilibus recurvis tortis, squamis inermibus.*—*Lambert. monogr. p. 7. t. 3.*

*P. rupestris. Mich. arb. 1. p. 49. t. 2.*

*P. hudsonia. Lam. encycl. 5. p. 339.*

*P. sylvestris* ♂. *divaricata. Ait. kew. 3. p. 366.*

In cold barren and rocky situations: Nova Scotia, Hudson's Bay, parts of Canada and Province of Maine.

*h. April, May. v. v.* The *Scrub Pine*, or, as Michaux calls it, the *Gray Pine*, is a small straggling tree, which in some instances, when growing among the barren rocks, does not rise above five or eight feet high, though it will grow to a considerable size when, by accident or culture, it is brought on good soil. Mr. Lambert observes in his note, "that the trees of this

species now  
sin from th

11. *P. foliis elongatis, strobilibus aculeis incurvis.*  
*P. mitis. Mich.*  
In most pine

May. *v.*  
building of  
note on the  
*P. variabilis.*  
saw it grow  
doubting h

12. *P. foliis teretibus erecto-incurvis gregatis, squamis inermibus.*  
*Icon. Lambert.*

On the plain  
*v. v.* The  
vourable s  
promiscuous  
Mr. Lamb  
were taken

13. *P. foliis elongatis, strobilibus tenuissimis.*

*P. Tæda alophaea.*  
*Icon. Mich.*

*f. 5.*  
On the edge  
Carolina.  
species ripe  
I strongly  
had not be  
figure of  
such.

14. *P. foliis geminis, aculeis inferioribus inermibus.*

*Icon. Lambert.*  
*t. 5.*  
On high m

species now in England exude a great quantity of resin from their branches."

11. *P. foliis elongatis binis ternatisque tenuibus canaliculatis, strobilis ovato-conicis subsolitariis, squamarum aculeis incurvis.*—*Lambert. monogr. p. 22. t. 15.*

*P. mitis. Mich. arb. 1. p. 52. t. 3.*

In most pine-forests: New England to Georgia.  $\frac{1}{2}$ . May. *v. v.* The *Yellow Pine* is the most in use for building of houses as well as shipping. Mr. Lambert's note on this species says, "The height and size of *P. variabilis* I have taken from Wangenheim, who saw it growing in America, and see no reason for doubting his authority."

*variabilis.*

12. *P. foliis ternis, vaginis abbreviatis, amentis masculis erecto-incumbentibus, strobilis ovatis sparsis vel aggregatis, squamarum spinis reflexis.*—*Lambert. monogr. p. 25. t. 18. 19.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 89. t. 8.*

On the plains: New England to Virginia.  $\frac{1}{2}$ . May. *v. v.* The common *Black* or *Pitch Pine* grows in favourable situations to a very large tree; it is found promiscuously in dry soil and very wet low grounds. Mr. Lambert says that his observations on this species were taken from Wangenheim.

*rigida.*

13. *P. foliis elongatis ternis, amentis masculis erecto-incumbentibus, strobilis ovatis, squamarum aculeis rectis tenuissimis.*—*Mich. fl. amer. 2. p. 205.*

*P. Tæda alopecuroides. Ait. kew. 3. t. 368.*

Icon. *Mich. arb. 1. p. 86. t. 7. Lambert. monogr. t. 19. f. 5.*

On the edges of ponds and swamps: New Jersey to Carolina.  $\frac{1}{2}$ . May. *v. v.* This and the preceding species ripen their seeds only after the second year. I strongly suspect them to be only varieties; and if it had not been introduced as a species by a very good figure of Michaux's, I should have only given it as such.

*serotina.*

14. *P. foliis geminis brevibus acutis, strobilis ovato-conicis, aculeis squamarum elongatis subulatis incurvis, inferioribus reflexis.*—*Lambert. monogr. p. 91.*

Icon. *Lambert. monogr. t. 16. f. c. Mich. arb. 1. p. 61. t. 5.*

On high mountains: on the Grandfather and Table

*pungens.*

mountains, Carolina. *h. v. s. in Herb. Lambert.*  
The cones are large and armed with strong spines. The  
cone figured *t. 16. f. c. in Lambert. monogr.* is ge-  
nuine, but the branch belongs to a separate species.

*Tæda.*

15. *P. foliis elongatis ternis, vaginis elongatis, strobilis ob-  
longo-conicis deflexis folio brevioribus, spinis rudibus.*  
—*Lambert. monogr. p. 23. t. 16. 17.*

Icon. *Lambert. l. c. Mich. arb. 1. p. 97. t. 9.*

In barren and sandy situations: Virginia to Florida. *h.*  
April, May. *v. v.* The *Loblolly* or *Old-field Pine* is  
found in large tracts in the southern states: all the  
woods seem to be seeded with it; for when any piece  
of cleared land is neglected for any space of time it  
will be covered with those pines. It is difficult and in  
some cases almost impracticable to recover those lands  
run over with young pines, as the ground appears to  
have lost all fertile properties for any other vegeta-  
ble than those trees. The account Mr. Michaux gives  
of this tree is very correct and instructive; as also is  
the plate of Mr. Lambert; but unfortunately the lat-  
ter, considering *P. tæda Wagh. amer. 41.* a genuine  
synonym, although it evidently belongs to *P. rigida*  
or *serotina*, has inadvertently been led into some  
errors in his description.

*palustris.*

16. *P. foliis ternis longissimis, stipulis pinnatifidis ramenta-  
ceis persistentibus, strobilis subcylindraceis muricatis.*  
—*Lambert. monogr. p. 27. f. 20.*

*P. australis. Mich. arb. 1. p. 64. t. 6.*

Icon. *Lambert. et Mich. l. c. Abbot. insect. 1. t. 42.*

In the forests, near the sea-coast: North Carolina to  
Florida. *h.* May. *v. v.* The *Long-leaved, Yellow,  
Pitch,* or *Broom Pine* is a beautiful as well as very  
useful tree. Mr. Lambert's remarks respecting the  
quality of the wood he has taken from Wangen-  
heim, whom he considers sufficient authority; but  
on the observations of Michaux respecting the male  
flowers, he mentions in his note, "I can only suppose  
Mr. Michaux has never seen my plate with the male  
flowers, or he never would have made such an obser-  
vation about them."

*Strobus.*

17. *P. foliis quinis gracilibus, vaginis brevissimis, strobilis  
pendulis cylindraceis folio longioribus, squamis laxis.*  
—*Willd. sp. pl. 4. p. 501. Lambert. monogr. p. 31.  
t. 22.*

Icon. *Lambert. amer. 1. t. 1.*  
In fertile soil  
*h.* May.  
the largest  
mentioned  
enormous  
masts.

*P. foliis fasci-  
rum margi-  
acumine  
Ait. kew.*

In low ced  
April, Ma  
*Hack-mate*  
sembling t  
in the exc

*P. foliis fasci-  
floris, aqu-  
minatis.*

*P. pendula.*

*P. laricina. L.*

*Larix americana.*

Icon. *Lambert.*

*t. 16. f. 27.*

About Hudso

York and

*Larch* rese

considered

specifically

both growi

other. M

always kep

708.

*P. foliis distic-  
lo-panicula  
p. 512.*

Icon. *Mich.*

*Comm. hor.*

In extensive

from India

Icon, Lambert. l. c. Mich. arb. 1. p. 103. t. 10. Wagh. amer. 1. t. 1. f. 1.

In fertile soil, on the side of hills: Canada to Virginia. h. May. v. v. The *White* or *Weymouth* Pine is the largest and most useful of all the species above mentioned; in the State of Vermont they grow to an enormous size; it is the best timber in America for masts.

\*\*\* *Foliis fasciculatis*. Larix.

8. P. foliis fasciculatis deciduis, strobilis oblongis, squamarum marginibus inflexis, bracteolis pendulæformibus acumine attenuato. Lambert. monogr. p. 53. t. 36. Ait. kew. 3. p. 369.

*pendula*.

In low cedar swamps: Canada to New Jersey. h. April, May. v. v. The *Black Larch*, *Pamersack*, or *Hackmatack* of the Americans, is a beautiful tree, resembling the European Larch in appearance, as well as in the excellent qualities of its wood and bark.

9. P. foliis fasciculatis deciduis, strobilis subrotundis, unisporis, squamis reflexis, bracteolis ellipticis, acuminatis. Lambert. monogr. p. 56. t. 37.

*microcarpa*.

P. pendula. Willd. arb. 215.

P. laricina. Du Roi herb. 2. p. 83.

Larix americana. Mich. fl. amer. 2. p. 203.

Icon, Lambert. l. c. Mich. arb. 3. t. 4. Wagh. amer. t. 16. f. 37.

About Hudson's Bay and on high mountains of New York and Pennsylvania. h. May. v. v. The *Red Larch* resembles the preceding, and both have been considered as one species by Michaux; but they are specifically and constantly different; I never saw them both growing in the same place, or even near one another. Mr. Lambert likewise observes that they have always kept distinct, when raised from seed.

708. CUPRESSUS. Gen. pl. 1458.

1. C. foliis distichis planis deciduis, floribus masculis aphyllis paniculatis, strobilis subglobosis.—Willd. sp. pl. 4. p. 512.

*disticha*.

Icon, Mich. arb. 3. p. 4. t. 1. Catesb. car. 1. t. 11. Comm. hort. 1. t. 59. Pluk. alm. t. 85. f. 8.

In extensive swamps and on the banks of large rivers from Indian-river Delaware to Florida, and on the Mis-

Mississippi.  $\gamma$ . May. *v. v.* The *Bald* or *Deciduous Cypress* is one of the largest trees of the New Continent. The extensive use made of its wood, and other particulars respecting this interesting tree, are fully elucidated in the excellent work of the younger Michaux, who paid particular attention to the use and properties of the different American forest trees.

*thyoides.*

2. C. ramulis compressis, foliis quadrifariam imbricatis ovatis basi tuberculatis, strobilis globulosis.—*Willd. sp. pl.* 4. p. 512.

Icon. *Mich. arb.* 3. p. 20. t. 2. *Wangh. amer. t.* 2. f. 4. *Pluk. mant. t.* 345. f. 1.

In deep swamps: New England to Carolina.  $\gamma$ . April, May. *v. v.* The *White Cedar*, so well treated upon by Michaux, is the principal tree, composing what is called *Cedar-swamps*, throughout the middle and southern States.

709. THUYA. *Gen. pl.* 1457.*occidentalis.*

1. T. ramulis ancipitibus, foliis quadrifariam imbricatis ovato-rhombeis adpressis nudis tuberculatis, strobilis obovatis, squamis interioribus truncatis, infra apicem gibbosis. *Willd. sp. pl.* 4. p. 508.

Icon. *Mich. arb.* 3. p. 29. t. 3. *Wangh. amer. t.* 2. f. 3. From Canada to the mountains of Virginia and Carolina.  $\gamma$ . May. *v. v.* The *American Arbor Vitæ* is rather scarce in the southern States, and only found on the steep banks of mountain torrents. The branches are extremely tough.

710. JUNIPERUS. *Gen. pl.* 1552.*communis.*

1. J. foliis ternis patentibus mucronatis bacca longioribus. *Willd. sp. pl.* 4. p. 853.

*erecta.*

$\alpha$ . J. ramis erectis.

*depressa.*

$\beta$ . J. ramis depressis.

$\alpha$ . About rocks, near the falls of rivers, in Canada and the western part of New York.  $\beta$ . in New York, and particularly in the province of Maine, in rocky or gravelly situations.  $\gamma$ . May. *v. v.* The *Common Juniper* may probably have been originally brought from Europe; but the variety  $\beta$ ., or probably a distinct species, seems to be really an original native; it does not grow above a foot or two high, and one single

root will cover sometimes a space of from fifteen to twenty feet in diameter.

2. *J. foliis ternis basi adnatis, junioribus imbricatis, senioribus patulis.* Willd. *sp. pl.* 4. p. 863. *virginiana.*

Icon. *Mich. arb.* 3. p. 42. t. 5. *Wangh. amer. t. 2. f.* 51.

In dry and rocky woods and fields: Province of Maine to Georgia. *h.* May. *v. v.* The *Red Cedar*, so useful and durable a wood, for whose history I refer to Michaux's work so often quoted, is as yet in great abundance in most parts of that country; but its extermination is going on so rapidly, that future inhabitants will be very much at a loss, and will feel the want of it when it is too late.

8. *J. foliis oppositis obtusis medio glandulosis, quadrifariam imbricatis, tenellis acutis oppositis, caule fruticoso.* *Sabina.*  
*β. Willd. sp. pl.* 4. p. 852. *procumbens.*

In the clefts of rocks: Canada. *Michaux. β.* Within the Rocky-mountains. *M. Lewis. h. v. s. in Herb. Lewis.* Not above six inches high.

4. *J. foliis oppositis obtusiusculis, medio glandulosis, quadrifariam imbricatis, tenellis acutis ternis patulis, caule arboreo.* Willd. *sp. pl.* 4. p. 852. *excelsa.*

*J. Sabina* varietas. *Pall. ross. 2. p.* 15.

On the banks of the waters of the Rocky-mountains. *M. Lewis. h. May. v. s. in Herb. Lewis.* A lofty elegant tree. Specimens of Pallas in the Herbarium of A. B. Lambert, Esq. seem to be the same with those collected by Mr. Lewis.

5. *J. foliis omnibus quadrifariam imbricatis, junioribus ovatis, senioribus acutis.* Willd. *sp. pl.* 4. p. 851. *barbadensis.*

Icon. *Pluk. alm. t.* 197. *f.* 4.

On the coast of Florida. *Michaux. h. v. v. in Hortis.*

711. TAXUS. *Gen. pl.* 1553.

1. *T. foliis linearibus distichis margine revolutis, receptaculis masculis globosis.* Willd. *sp. pl.* 4. p. 856. *canadensis,*

*T. baccata minor. Mich. fl. amer. 2. p.* 245.

In shady, rocky places: Canada. *Michaux.* On the banks of the Antietum, Maryland. *Ph. March, April. v. v.* The plants I observed on the Antietum cover a great part of the rocky banks of that river. Under the shade of other trees it does not rise above two or three feet.

## 712. ZAMIA. Gen. pl. 1700.

*integrifolia.*

1. *Z. frondibus pinnatis, foliolis lanceolatis rotundato-obtusis basi attenuatis latere exteriori ad apicem serrulatis, stipite glabro subtetragono.* Willd. *sp. pl.* 4. p. 647.

*Z. pumila.* Sp. pl. 1659. excl. synonym.

Icon. Jacq. *ic.* 3. t. 635.

In East Florida.  $\frac{1}{2}$ . +. This species of palm is only found in Florida, as I have made all inquiries to find it in Georgia, but without success.

713. EG

714. LY

715. BE

716. OP

717. BO

718. HY

719. SCH

720. OSN

ndato-obtu-  
n serrulatis,  
4. p. 847.

oalm is only  
iries to find

## XX. CRYPTOGRAMIA.

---

### I. GONOPTERIDES.

713. **EQUISETUM.** *Recept.* peltata, pentagona, spicata.  
*Indusium* corniculatum. *Stam.* 4. *Styl.* O. *Sem.* 1.

### II. STACHYOPTERIDES.

714. **LYCOPodium.** *Capsulae* reniformes, 1-loculares,  
2-valves, polyspermæ. *Sem.* minutissima, pulve-  
riformia.  
715. **BERNHARDIA.** *Capsulae* 3-occae, 3-loculares :  
loculis superne dehiscentibus, semibivalvibus.  
716. **OPHIOGLOSSUM.** *Capsulae* nudæ, uniloculares,  
in spicam articulatam disticham connatæ, 2-valves,  
transverse dehiscentes.  
717. **BOTRYCHIUM.** *Capsulae* subglobosæ, rachi adu-  
natæ in racemum compositum dispositæ, 1-loculares :  
valvulis binis postice connexis transverse dehiscentibus.

### III. SCHISMATOPTERIDES.

718. **HYDROGLOSSUM.** *Spicae* unilaterales. *Capsulae*  
biseriales, latere interiore a basi ad verticem dehis-  
centes. *Indusium* squamiforme quamlibet capsulam  
obtegens.  
719. **SCHIZÆA.** *Spicae* unilaterales, flabellatæ, aggre-  
gatæ. *Capsulae* vertice radiatim striatæ, subturbinatæ,  
poro oblongo latere hiantes. *Indusium* continuum  
e margine inflexo spicae formatum.  
720. **OSMUNDA.** *Capsulae* subglobosæ, pedicellatæ,  
striatæ, semibivalves, paniculatæ. *Indusium* nullum.

## IV. FILICES.

721. ACROSTICHUM. *Capsulæ* sparsæ, discum totum inferiorem frondis vel ejus partem occupantes. *Indusium* nullum.
722. POLYPODIUM. *Sori* subrotundi, sparsi. *Indusia* nulla.
723. WOODSIA. *Sori* subrotundi, sparsi. *Indusium* calyciforme, apertum, margine crinitum, includens *Capsulas* pedicellatas.
724. ASPIDIUM. *Sori* subrotundi, sparsi. *Indusium* umbilicatum vel uno latere dehiscens.
725. ONOCLEA. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, in formam baccæ connata non dehiscencia.
726. STRUTHIOPTERIS. *Capsulæ* partem frondis inferiorem dense tegentes. *Indusia* squamiformia, marginalia, interius dehiscencia.
727. ASPLENIUM. *Sori* lineares, transversales, sparsi. *Indusia* e venis lateralibus orta, costam versus dehiscencia.
728. SCOLOPENDRIUM. *Sori* lineares, transversales, sparsi. *Indusium* duplex, ad utrumque latus sori situm.
729. PTERIS. *Sori* continui, lineares, marginales. *Indusium* e margine frondis, inflexum, interius dehiscens.
730. VITTARIA. *Sori* lineares, longitudinales, continui vel in margine vel in disco frondis. *Indusium* duplex, ad utrumque latus sori.
731. BLECHNUM. *Sori* lineares, longitudinales, continui, ad utrumque latus costæ frondis. *Indusium* superficialiarium, interius dehiscens.
732. WOODWARDIA. *Sori* oblongi, distincti, recti, ad utrumque latus costæ frondis. *Indusia* superficialia, fornicata, interius dehiscencia.
733. ADIANTUM. *Sori* oblongi vel subrotundi, *Indusii* membranaceis, e margine ortis, interius dehiscen-  
tibus inserti.
734. CHEILANTHES. *Sori* punctiformes, discreti, marginales, tecti *Indusio* squamiformi marginali interius dehiscente.
735. DICKSONIA. *Sori* punctiformes, marginales, subrotundi, distincti. *Indusium* duplex, alterum superficialiarium, exterius dehiscens, alterum marginale interius dehiscens.

736. H

737. ISC

fr

re

738. SA

u

tr

739. AZ

p

1. E. cau

culi

cylia

enu

Icon.

In low

Apr

2. E. cau

sis,

subt

p. 3

Icon.

In low

—Ju

3. E. cau

glabr

p. 4.

In swa

Rese

4. E. cau

penta

Will

736. **HYMENOPHYLLUM.** *Sorus* marginalis, receptaculo cylindraceo insertus. *Indusium* bivalve, sorum includens.

## V. HYDROPTERIDES.

737. **ISOETES.** *Capsula* membranacea, non dehiscens, frondis basi immersa, 1-locularis. *Semina* angulata, receptaculis pluribus filiformibus inserta.
738. **SALVINIA.** *Industria* imbricata, connata, capsulam unilocularem mentientia. *Semina* receptaculo centrali inserta.
739. **AZOLLA.** *Capsula* unilocularis, radicalis, globosa, polysperma.

## I. GONOPTERIDES.

713. **EQUISETUM.** *Gen. pl.* 1614.

1. *E. caulibus* sterilibus simpliciter ramosis, ramis scabriusculis tetragonis, fructificationibus simplicibus, vaginis cylindraceis inciso-dentatis, dentibus acutis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 1.

arvense.

Icon. *Schkuhr filic.* t. 167.In low and sandy fields: Pennsylvania and Virginia.  $\mathcal{A}$ . April, May. v. v.

2. *E. caulibus* sterilibus fructificantibusque duplicato-ramosis, ramis scabriusculis flexis tetragonis, ramulis subtriquetris. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 3.

sylvaticum.

Icon. *Schkuhr filic.* t. 166. *Fl. dan.* 1182.In low shady woods: New York to Virginia.  $\mathcal{A}$ . April—June. v. v.

3. *E. caulibus* subramosis, ramis subquaternis tetragonis glabris, spica cylindracea terminali.—*Willd. sp. pl.* 5. p. 4.

uliginosum.

In swamps: New York to Virginia.  $\mathcal{A}$ . May. v. v. Resembles *E. limosum*.

4. *E. caulibus* simpliciter ramosis glabris sulcatis, ramis pentagonis apice spiciferis. *Willd. enum.* 1065. *Willd. sp. pl.* 5. p. 5.

palustre.

Icon. *Schkuhr filic.* t. 168, 169. *Fl. dan.* 1183.

On the banks of rivers and in deep swamps: Virginia.  
 ♀. May, June. v. v.

*scirpoides.*

5. *E. caulibus simplicibus adscendentibus glabris filiformibus apice spiciferis, vaginis 3-dentatis sphacelatis, dentibus aristatis apice caducis.* *Willd. sp. pl.* 5. p. 7. *Mich. fl. amer.* 2. p. 281.

*E. reptans. Swartz. in litt.*

In shady woods, round the mossy feet of trees: Canada and on the Green mountains, Vermont. ♀. July. v. v. A small species.

*hyemale.*

6. *E. caulibus simplicibus erectis scaberrimis apice spiciferis, vaginis discoloribus basi apiceque sphacelatis, dentibus aristatis omnino caducis.* *Willd. sp. pl.* 5. p. 8.

Icon. *Schkuhr filic.* t. 172.

On the banks of rivers and in swamps: Canada to Virginia. ♀. July, Aug. v. v.

## II. STACHYOPTERIDES.

### 714. LYCOPODIUM. Gen. pl. 1615.

\* *Spicis pedunculatis.*

*carolinianum.*

1. *L. caule repente, foliis subdistichis patulis lanceolatis superficialibus adpressis, pedunculo erecto solitario elongato monostachyo, bracteis sublanceolatis.*—*Willd. sp. pl.* 5. p. 14.

Icon. *Dill. musc.* t. 62. f. 5.

In low meadows and woods: Pennsylvania to Carolina. ♀. July. v. v.

*clavatum.*

2. *L. caule repente, ramis adscendentibus, foliis sparsis enervibus incurvato-setigeris, spicis geminatis cylindricis pedunculatis, squamis ovatis acuminatis eroso-denticulatis.* *Willd. sp. pl.* 5. p. 16.

Icon. *Schkuhr filic.* t. 162. *Fl. dan.* 126. *Dill. musc.* t. 58. f. 1. *Pluk. alm.* t. 47. f. 8.

In dry pine woods: Canada to Pennsylvania. ♀. July. v. v. It sometimes has only one spike.

*complanatum.*

3. *L. caule erecto, ramis alternis dichotomis, foliis bifariis connatis apice patentibus, superficialibus solitariis adpressis, pedunculis quadrifidis tetrastachyis, spicis teretibus cylindricis.* *Willd. sp. pl.* 5. p. 19.

Icon. *Fl. dan.* 78. *Dill. musc.* t. 59. f. 3.

In shady woods, on rocky soil: Canada to Virginia.  $\mathcal{U}$ .

July. v. v.

4. L. caulis erectis, ramis alternis dichotomis subcompressis, foliis lanceolatis acutis quadrifariis adpressis, pedunculis solitariis elongatis tristachyis, spicis teretibus, squamis subrotundis acuminatis.

*tristachyum.*

On high mountains in Virginia, near the Sweet-springs.

$\mathcal{U}$ . July. v. v. This species is intermediate between the preceding and following one.

5. L. caule erecto, ramis alternis dichotomis, foliis lanceolatis acutis quadrifariis adpressis convexis, pedunculis solitariis monostachyis, spicis teretibus, squamis subcordatis acuminatis.—*Willd. sp. pl.* 5. p. 20.

*sabinaefolium.*

L. alpinum. *Mich. fl. amer.* 2. p. 282.

Icon. *Dill. musc.* t. 58. f. 2?

In Canada. *Michaux.*  $\mathcal{U}$ . July. +.

\*\* *Spicis sessilibus; foliis caulem circumobsidentibus.*

6. L. caule erecto, ramis alternis confertis dichotomis patentibus, foliis sparsis sexfariis lineari-lanceolatis patulis, spicis solitariis terminalibus sessilibus. *Willd. sp. pl.* 5. p. 21.

*dendroidesum.*

L. obscurum. *Sp. pl.* 1566.

Icon. *Schkuhr filic.* t. 164. *Dill. musc.* t. 64. f. 12.

In dry shady woods: Canada to Carolina.  $\mathcal{U}$ . July. v. v. This and some other species are known by the name of *Ground Pine*, and made use of for ornamenting rooms and chimney-pieces, it forming, when properly tied up, beautiful festoons.

7. L. caule repente, ramis adscendentibus basi bis bipartitis, ramulis simplicibus, foliis quinquefariis lineari-lanceolatis mucronatis apice serrulatis patentibus, ad incrementa annua contractis, spicis solitariis sessilibus terminalibus. *Willd. sp. pl.* 5. p. 23.

*annotinum.*

Icon. *Schkuhr filic.* 162. *Fl. dan.* 127. *Dill. musc.* t. 63. f. 9.

In shady woods: Canada to Pennsylvania.  $\mathcal{U}$ . July. v. v.

8. L. caule subramoso repente, ramis simplicibus solitariis erectis apice monostachyis, foliis linearibus sparsis acutis integerrimis supra curvis, spica sessili foliosa. *Willd. sp. pl.* 5. p. 25.

*inundatum.*

Icon. *Schkuhr filic.* 160. *Fl. dan.* 336. *Dill. musc.* t. 61. f. 7.

In cedar swamps and overflowed woods: Canada to New York. *Y.* July. *v. v.*

- alopecuroides*. 9. *L. caule repente subramoso, ramis subsimplicibus elongatis adscendentibus spice monostachyis, foliis lineari-subulatis basi ciliato-dentatis patulis, spica sessili foliosa. Willd. sp. pl. 5. p. 26.*

Icon. *Schkuhr filic. t. 160. Dill. musc. t. 62. f. 6.*

In sphagnous swamps: New York to Carolina. *Y.* July. *v. v.* It is known by the name of *Walking Fern*.

- selaginoides*. 10. *L. caule repente, ramis adscendentibus simplicibus, foliis sparsis lanceolatis patulis ciliato-denticulatis, spicis terminalibus solitariis foliosis sessilibus. Willd. sp. pl. 5. p. 28.*

Icon. *Schkuhr filic. t. 165. Fl. dan. 70. Dill. musc. t. 68. f. 1.*

In mossy woods: Canada and New Hampshire. *Y.* July. *v. v.* The American plant is smaller than the European.

- rupestre*. 11. *L. caule repente ramoso, ramis subdivisiis adscendentibus, foliis sparsis imbricatis lineari-lanceolatis ciliatis spice piliferis, spicis solitariis sessilibus terminalibus. Willd. sp. pl. 5. p. 30.*

Icon. *Schkuhr filic. t. 165. Dill. musc. t. 63. f. 11.*

On rocks: Canada to Virginia, and on the Carolina mountains. *Y.* July. *v. v.* A small species.

\*\*\* *Spicis sessilibus; foliis distichis.*

- albidulum*. 12. *L. foliis bifariis ovatis acutis denticulatis, superficialibus alternis distichis adpressis, spicis terminalibus elongatis sessilibus tetragonis. Willd. sp. pl. 5. p. 37.*

In moist shady places: Pennsylvania. *Y.* Aug. *v. v.* A very small, moss-like species, very much resembling the following.

- spodum*. 13. *L. foliis bifariis subrotundo-ovatis acutis planis denticulatis cum superficialibus acuminatis alternantibus, caule ramoso basi radicante, spicis terminalibus sessilibus subsolitariis. Willd. sp. pl. 5. p. 38.*

Icon. *Dill. musc. t. 64. f. 3.*

In shady woods: Pennsylvania to Florida. *Y.* July. *v. v.*

\*\*\*\* *Capsulis axillaribus.*

- lucidulum*. 14. *L. foliis octofariis lineari-lanceolatis denticulatis acutis patenti-reflexis, caule adscendente bifido. Willd. sp. pl. 5. p. 51.*

*L. reflexum*  
Icon.

In low rivul  
semit  
of cr

715. BERN

1. *B. caule*

*sp. p.*

Hoffm

p. 17

Psilotu

Psilotu

Lycopo

Icon. S

On the

*Y.*

716.

1. *O. spica*

*Willd.*

Icon. S

In low

hills:

2. *O. spica*

bulbo

*O. crota*

In low

May.

717.

1. *B. scapo*

bipinn

*Willd.*

*B. lunari*

Botryp

Osmund

Icon. S

In pastu

June.

2. *B. scapo*

oblong

cordat

CRYPTOGAMIA STACHYOPTERIDES. *Lycopodium*.*L. reflexum*. Schkuhr filic. t. 159.

Icon. Dill. t. 36. f. 2.

In low sphagnum grounds and on the banks of shady rivulets: Canada to Carolina.  $\mathcal{U}$ . July. v. v. Resembles *L. Selago*; it frequently bears bulbs instead of capsules.

715. BERNHARDIA. Willd. act. acad. erford. 1802. p. 11.

1. B. caule nudo dichotomo ramisque triquetris.—Willd. sp. pl. 3. p. 86.

*dichotoma*.

Hoffmannia aphylla. Willd. in Roem. et Usteri bot. mag. 6. p. 17.

Pilotum triquetrum. Swartz. synop. filic. 187.

Pilotum floridanum. Mich. fl. amer. 2. p. 281.

*Lycopodium nudum*. Sp. pl. 1564.

Icon. Schkuhr filic. t. 165. b. Dill. musc. t. 64. f. 4.

On the cliffs of rocks, near the sea-coast, in Florida.  $\mathcal{U}$ . June. v. s.

716. OPHIOGLOSSUM. Gen. pl. 1621.

1. O. spica caulina, fronde ovata obtusa, arcte reticulata. Willd. sp. pl. 5. p. 58.

*vulgatum*.

Icon. Schkuhr filic. t. 153. Fl. dan. 147.

In low grassy open places, in woods and on the sides of hills: New York to Pennsylvania.  $\mathcal{U}$ . May. v. v.

2. O. spica caulina, fronde subcordato-ovata obtusa, radice bulbosa. Willd. sp. pl. 5. p. 60.

*bulbosum*.

O. crotalophoroides. Walt. fl. car. 256.

In low sandy grounds: New Jersey to Carolina.  $\mathcal{U}$ . May. v. v.

717. BOTRYCHIUM. Swartz. synop. filic. 8.

1. B. scapo nudo, frondibus glabris radicalibus tripartito-bipinnatis, foliis lunatis crenatis, spicis pinnatis.—

*fumarioides*.

Willd. sp. pl. 5. p. 63.

B. lunarioides. Swartz. synop. filic. 172.

Botrypus lunarioides. Mich. fl. amer. 2. p. 274.

Osmunda biternata. Lam. encycl. 4. p. 608.

Icon. Schkuhr filic. t. 157.

In pastures and open woods: New York to Carolina.  $\mathcal{U}$ . June. v. v.

2. B. scapo inferne unifrondoso, fronde subbiterata, foliis oblongo-lanceolatis serrulatis basi dilatatis inæqualiter cordatis, spicis bipinnatis.—Willd. sp. pl. 5. p. 63.

*obliquum*.

## CRYPTOGAMIA STACHYOPTERIDES. Botrychium.

In open woods: Pennsylvania and Virginia. ♀. June, July. v. v. Resembles the preceding very much, and is probably only a variety.

*dissectum.*

3. B. scapo inferne unifrondoso, fronde tripartito-bipinnatifida, lacinii linearibus bipartitis apice bidentatis. Willd. sp. pl. 5. p. 64.

Icon. Schkuhr filic. t. 158. Pluk. amalth. t. 427. f. 5.

In pastures and open dry woods: New York to Florida. ♀. June. v. v.

*virginicum.*

4. B. hirsutum; scapo medio frondoso, fronde subterna tripartito-bipinnatifida, foliolis inciso-pinnatifidis, lacinii obtusis subtridentatis, spicis bipinnatis divaricatis.—Willd. sp. pl. 5. p. 64.

Botrypus virginicus. Mich. fl. amer. 2. p. 274.

Osmunda virginica. Sp. pl. 1579.

Osmunda multifida. Gmel. nov. com. petrop. 12. t. 11. f. 1.

Icon. Schkuhr filic. t. 156.

In shady woods, on rich vegetable soil: Canada to Carolina. ♀. June, July. v. v. This is the largest of the species here described; it is known by the name of *Rattle Snake Fern*, probably from the circumstance of growing near the places where those venomous animals generally are found.

*gracile.*

5. B. glabrum; scapo medio frondoso, fronde tripartito-bipinnatifida, lacinii inciso-subpinnatifidis acutis subdentatis, spicis gracilibus pinnatis erectis.

In shady fertile woods: Virginia. ♀. June. v. v.

This species approaches near to the preceding in its first appearance, but is by far a smaller and more slender plant, besides the other distinctions.

## III. SCHISMATOPTERIDES.

## 718. HYDROGLOSSUM. Willd. sp. pl. 5. p. 77.

Ophioglossum. Linn.

*palmatum.*

1. H. caule flexuoso-scandente, frondibus conjugatis cordatis quinquelobo-palmatis, lobis lanceolatis integerrimis obtusis obsolete sinuatis, spicillis terminalibus composite paniculatis oblongo-linearibus.—Willd. sp. pl. 5. p. 84.

## CRYPTOS

Lygodium

Creisium

Icon. S.

t. 1. f.

In low c

v. v.

the N

plant

719. S

1. S. frond

merat

In barre

lington

Aug. 1

scarce

of the

1. O. frond

ciniis c

to, fru

pl. 5. f.

Icon. S.

f. 3.

In low c

gland

fern of

the fer

down.

2. O. frond

natifid

pl. 5. f.

In Virgi

bably c

cimen

the fru

grow d

format

3. O. frond

lacinii

quot i

p. 96.

*Lygodium palmatum*. Swartz. *sy. op. filic.* 1732.  
*Cteisium paniculatum*. Michx. *fl. amer.* 3. p. 273.  
 Icon. Schkuhr *filic.* 140. Willd. *act. acad. erford.* 1802.  
 t. 1. f. 2.

In low copses, climbing among small shrubs. 24. July.  
 v. v. This is the most beautiful and singular of all  
 the North American ferns, and is a highly ornamental  
 plant when cultivated in pots.

719. SCHIZÆA. Smith *act. taur.* 5. p. 419.

1. S. fronde simplicissima lineari-compressa, apicis conglo-  
 meratis inflexis secundis.

*pusilla.*

In barren sandy but moist grounds: New Jersey, Bur-  
 lington county, near a place called Quaker Bridge. 24.  
 Aug. Sept. v. v. This singular little fern is very  
 scarce, and so small that it generally escapes the notice  
 of the botanist, unless accident points it out.

720. OSMUNDA. Gen. pl. 1622.

1. O. frondibus sterilibus pinnatis, pinnis pinnatifidis, laciniis ovato-oblongis obtusis integerrimis, stipite lanato, fructificantibus bipinnatis lanuginosis.—Willd. *sp. pl.* 5. p. 98. *cinnamomea.*

Icon. Schkuhr *filic.* t. 146. Moris. *hist.* 3. s. 14. t. 4. f. 3.

In low open woods and exsiccated swamps: New England to Florida. 24. June—Aug. v. v. This is a fern of the size and habit of *Polypodium Filix mas*; the fertile stems are covered with a cinnamon-coloured down.

2. O. frondibus pinnatis ferrugineo-tomentosis, pinnis pinnatifidis apice coarctato-fructificantibus.—Willd. *sp. pl.* 5. p. 96. *Claytoniana.*

In Virginia. Clayton. 24. April. +. This is probably only a variety of the preceding. I have no specimen in my herbarium; but recollect very well that the fructiferous stems of that species very frequently grow out into leaves, which may have given rise to the formation of the present species.

3. O. frondibus pinnatis glabris, pinnis oppositis pinnatifidis, laciniis oblongis acutiusculis integerrimis, pinnis aliquot intermediis fructificantibus.—Willd. *sp. pl.* 5. p. 96. *interrupta.*

*O. basilaris*. *Sprengel. anl.* 3. p. 160.

Icon. *Schkuhr filic.* t. 144.

In low and swampy grounds: Canada to Virginia, and in the western territories. ♀. June, July. v. v. This singular fern is about two feet high.

*spectabilis*.

4. *O. frondibus bipinnatis*, pinnulis oblongis obtusiusculis argute serrulatis basi truncatis inæqualibus, omnibus alternis, panicula bipinnata fructificante in apice frondis.—*Willd. sp. pl.* 5. p. 98.

*O. regalis* β. *Sp. pl.* 1521. *Mich. fl. amer.* 2. p. 273.

Icon. *Pluk. alm.* t. 184. f. 4.

In mountain swamps: Canada to Carolina. ♀. July. v. v. A very elegant species.

#### IV. FILICES.

##### 721. ACROSTICHUM. *Gen. pl.* 1625.

*aureum*,

1. *A. frondibus pinnatis*, pinnis alternis oblongo-lanceolatis integerrimis, basi cuneatis æqualibus, omnibus acuminatis, superioribus fructificantibus. *Willd. sp. pl.* 5. p. 116.

Icon. *Schkuhr filic.* t. 1. *Petiv. fl.* t. 8. f. 5. *Plum. amer.* t. 7. *Pluk. alm.* t. 288. f. 2.

In deep swamps near the sea-coast: Florida. ♀. July. v. v. This is the largest of the North American ferns, the leaves being sometimes above five feet long.

##### 722. POLYPODIUM. *Swartz. synop. filic.* 3.

*vulgare*.

1. *P. frondibus profunde pinnatifidis*, laciniis lineari-lanceolatis obtusis crenulatis approximatis, superioribus sensim minoribus, soris solitariis, caudice paleaceo. *Willd. sp. pl.* 5. p. 172.

Icon. *Schkuhr filic.* t. 11. *Plum. fil.* t. A. f. 2.

On rocks and old rotten trees: Canada to Carolina. ♀. July. v. v.

*virginianum*.

2. *P. frondibus profunde pinnatifidis*, laciniis lanceolatis obtusis integerrimis approximatis, superioribus sensim minoribus, soris solitariis, caudice nudo. *Willd. sp. pl.* 5. p. 174.

Icon. *Petiv. filic.* t. 7. f. 9. *Plum. amer.* t. 36. *filic.* t. 77.

On the tr  
Willdenc  
Virginia,  
wise neve  
under the

3. *P. frondibus*  
ribus inte  
ribus, au  
soris solit  
P. ceteracci  
Acrostichum  
Icon. *Schku*  
On rocks an  
Kentucky  
ral bridge  
Dismal-s

4. *P. frondibus*  
infimis de  
narum in  
mis, infim  
tariis. *H*  
Icon. *Pluk*  
t. 20. b.

In shady me  
rolina.  
triangle in

5. *P. frondibus*  
tiguus ad  
soris minu  
In shady wo  
Resemble

6. *P. frondibus*  
obtusiuscu  
fluentibus  
P. Dryopter  
Nephrodium  
In shady b  
July. v.  
I only fo  
shady bee

On the trunks of trees: Virginia? 2. July. +.  
Willdenow doubts whether this is really a native of  
Virginia, and I believe with much propriety, as I like-  
wise never have seen any other species than *P. vulgare*  
under the name of *P. virginicum*.

3. *P. frondibus profunde pinnatifidis, lacinii alternis lineari-  
bus integerrimis obtusis, superioribus sensim mino-  
ribus, subtus stipiteque squamulosis, apice fructiferis,  
soris solitariis.* Willd. *sp. pl.* 5. p. 174.

*P. ceteractinum.* Michx. *fl. amer.* 2. p. 271.

*Acrostichum polypodioides.* Sp. *pl.* 1525.

Icon. *Schkuhr filic.* t. 11. b.

On rocks and trunks of old trees: Virginia to Florida,  
Kentucky and Tennessee; on the rocks of the Natu-  
ral bridge, Virginia, and on the stems of trees in the  
Dismal-swamp. Ph. July. v. v.

4. *P. frondibus bipinnatifidis glabriusculis, pinnis  
infimis deflexis, lacinii lanceolatis obtusis, pinnu-  
narum inferiorum inciso-crenatis superiorum integerrimis,  
infimis adnato-decurrentibus, soris minutis soli-  
tariis.* Willd. *sp. pl.* 5. p. 200.

Icon. *Pluk. alm.* t. 284. f. 2. bona. *Schkuhr filic.*  
t. 20. b.

In shady moist woods on fertile soil: New York to Ca-  
rolina. 2. July. v. v. The whole leaf forms a  
triangle in its circumference; the stem is smooth.

5. *P. frondibus bipinnatifidis ciliatis, pinnis oppositis con-  
tiguis adnatis, pinnulis subellipticis, stipite paleaceo,  
soris minutis.* Willd. *sp. pl.* 5. p. 200.

In shady woods: Canada to New York. 2. July. v. v.  
Resembles the preceding.

6. *P. frondibus ternatis bipinnatis rectis rigidulis, lacinii  
obtusiusculis subintegerrimis, soris marginalibus con-  
fluentibus.* Willd. *sp. pl.* 5. p. 210.

*P. Dryopteris.* Bolton *filic.* 53. t. 1.

*Nephrodium Dryopteris.* Michx. *fl. amer.* 2. p. 270.

In shady beech-woods: Canada to Pennsylvania. 2.  
July. v. v. This is a very rare fern in Pennsylvania.  
I only found it on the western mountains in deep  
shady beech forests.

*incanum.*

*hexagonopterum.*

*connectile.*

*calcareum.*

723. WOODSIA. *Brown in linn. trans.* 11. p. 173.*hyperborea.*

1. W. frondibus pinnatis, pinnis tripartitis vel pinnatifido-incisis cuneiformibus obtusis dentatis subtus hirtis, soris solitariis demum confluentibus.—*Brown l. c.* cum icone.

*Polypodium hyperboreum. Willd. sp. pl.* 5. p. 197.

*Polypodium arvenicum. Smith fl. brit.* 3. p. 1115.

*Acrostichum ilvense. Huds. angl.* 451.

*Acrostichum alpinum. Bolton filic.* 76. t. 42.

*Acrostichum hyperboreum. Liljeblad act. holm.* 1793. p. 201. t. 8.

Icon. *Schkuhr filic.* t. 17. b. *Pluk. phytogr.* t. 89. f. 5. *Moris. hist.* 3. s. 14. t. 3. f. 23.

In the clefts of rocks: Canada and on the high mountains of Pennsylvania and Virginia. *W.* July. *v. v.* A small fern growing in large tufts, and covered with long brown chaffy hair.

*ilvensis.*

2. W. frondibus bipinnatifidis, laciniis oblongis obtusis inferioribus repandis, superioribus integerrimis subtus hirtis, soris submarginalibus demum confluentibus, stipite superne villosa.—*Brown l. c.*

*Polypodium ilvense. Willd. sp. pl.* 5. p. 198.

*Polystichum Marantæ. Roth fl. germ.* 3. p. 92.

*Acrostichum ilvense. Sp. pl.* 1528.

Icon. *Schkuhr filic.* t. 19. *Fl. dan.* 391.

On rocks: Canada to Virginia. *W.* July. *v. v.* Resembles the preceding very much; but the leaves are smaller divided and covered with fine woolly hair, not chaffy as in the other.

724. ASPIDIUM. *Swartz. synop. filic.* 3.

*Nephrodium. Mich. fl. amer.* 2. p. 266.

\* *Frondibus ternatis.*

*cicutarium.*

1. A. frondibus ternatis, foliolis pinnatifidis, laciniis acuminatis sinuato-pinnatifidis integerrimis, lateralium infima et exteriore lacinia elongata, soris serialibus, *Willd. sp. pl.* 5. p. 215.

*Polypodium cicutarium. Sp. pl.* 1549.

*Polypodium appendiculatum. Swartz. fl. ind. occid.* 3. p. 1677.

Icon. *Pluk. alm.* t. 289. f. 4. & t. 296. f. 2.

On rocks in the mountains of Virginia. *W.* +.

2. A. frondibus ciliatis inferioribus ribus confluentibus. A. auriculatum. Nephrodium. On rocks. lina. latum.

\*\*\* *Frondibus*

3. A. frondibus fidis, ciliatis. pl. 5. A. thelypteris. Nephrodium. Polypodium. Icon. S. On river. nada.

4. A. frondibus dis g. margi. sp. pl. Polypodium. Polystichum. Acrostichum. Icon. S. 1018. In low g. W. J. fication. ceding.

5. A. frondibus subcoctus. pl. 5. Polypodium. Icon. S.

\*\* *Frondibus pinnatis*.

2. *A. frondibus pinnatis*, pinnis lanceolatis falcatis acutis *acrostichoides*. ciliato-serratis, basi superiore mucronato-auriculatis, inferiore cuneatis, superioribus fructificantibus minoribus, stipite rachique paleaceis, soris solitariis demum confluentibus. *Willd. sp. pl.* 5. p. 225.

*A. auriculatum*. *Schkuhr filic.* 31. t. 30. excl. *synon.*

*Nephrodium acrostichoides*. *Mich. fl. amer.* 2. p. 267.

On rocks, in shady low places: New England to Carolina. ♀. June—Aug. *v. v.* Resembles *N. auriculatum*.

\*\*\* *Frondibus subbipinnatis; indusiis dimidiatis reniformibus*.

3. *A. frondibus pinnatis*, pinnis lineari-lanceolatis pinnatifidis, laciniis oblongis obtusiusculis subintegerrimis ciliatis, soris marginalibus, stipite lævi.—*Willd. sp. pl.* 5. p. 249.

*A. thelypteroides*. *Swartz. synop. filic.* 57.

*Nephrodium thelypteroides*. *Mich. fl. amer.* 2. p. 267.

*Polypodium noveboracense*. *Sp. pl.* 1552.

Icon. *Schkuhr filic.* t. 46.

On river sides and the banks of ditches and ponds: Canada to Carolina. ♀. July. *v. v.*

4. *A. frondibus pinnatis*, pinnis lineari-lanceolatis pinnatifidis glabris, laciniis ovatis acutis integerrimis, soris marginalibus contiguis demum confluentibus. *Willd. sp. pl.* 5. p. 249.

*Polypodium Thelypteris*. *Mant.* 505.

*Polystichum Thelypteris*. *Roth fl. germ.* 3. p. 77.

*Acrostichum Thelypteris*. *Sp. pl.* 1528.

Icon. *Schkuhr filic.* t. 52. *Fl. dan.* 760. *Engl. bot.* 1018.

In low grassy fields and swamps: Canada to Virginia.

♀. July. *v. v.* It is very seldom found with fructifications; the leaves are smaller than in the preceding.

5. *A. frondibus lanceolato-ovatis glabris pinnatis*, pinnis subcordato-oblongis pinnatifidis, laciniis oblongis obtusis dentato-serratis, stipite paleaceo.—*Willd. sp. pl.* 5. p. 252.

*Polypodium cristatum*. *Sp. pl.* 1551.

Icon. *Schkuhr filic.* t. 37. *Afzel. act. holm.* 1787. t. 9.

*noveboracense*.

*Thelypteris*.

*cristatum*.

- Callipteris*.  $\beta$ . *A. majusculum*; pinnis alternis, lacinii oblongis inæqualiter adpresso-serratis, fronde apice fructificante.  
*Polypodium Callipteris*. *Ehrh. Beitr.* 3. p. 77.  
*Polystichum cristatum*. *Roth germ.* 3. p. 84.
- lancastrienne*.  $\gamma$ . *A. pinnis suboppositis, lacinii triangulari-ovatis acute serratis, stipite nudo*.—*Willd. sp. pl.* 5. p. 261.  
*Schkuhr filic.* t. 41.  
 In moist rocky situations: New York to Virginia.  $\gamma$ . July. *v. v.* Of middle size.
- \*\*\*\* *Frondibus bipinnatis triplicato-pinnatisve; indusiis dimidiatis reniformibus.*
- obtusum*. 6. *A. frondibus bipinnatis, pinnulis oblongis obtusis superioribus coadunatis dentato-crenatis, rachi superne pubescente*. *Willd. sp. pl.* 5. p. 254.  
*Polypodium obtusum*. *Swartz. synop. filic.* 39. *Schkuhr filic.* 18.  
*Icon. Schkuhr filic.* t. 21.  $\S$  43. *b.*  
 In clefts of rocks: Pennsylvania and Virginia.  $\gamma$ . July. *v. v.* A small species, not above four or five inches high.
- aculeatum*. 7. *A. frondibus bipinnatis, pinnulis ovatis subfalcatis acutis mucronato-serratis, basi superiore truncatis, inferiore abbreviato-cuneatis, superioribus fructificantibus, stipite rachique paleaceis*. *Willd. sp. pl.* 5. p. 258.  
*Polypodium aculeatum*. *Sp. pl.* 1552.  
*Polystichum aculeatum*. *Roth fl. germ.* 3. p. 79.  
*Icon. Schkuhr filic.* t. 39.  $\S$  40. *Bolt. filic.* t. 56. *Pluk. alm.* t. 160. f. 1.  
 In shady rocky places, on the Green mountains, Vermont.  $\gamma$ . Aug. *v. v.* The size of No. 5, of a shining and strong texture.
- marginale*. 8. *A. frondibus bipinnatis, pinnulis oblongis obtusis decurrentibus crenatis, crenis baseos profundioribus, soris marginalibus, stipite paleaceo*. *Willd. sp. pl.* 5. p. 259.  
*Polypodium marginale*. *Sp. pl.* 1522.  
*Nephrodium marginale*. *Mich. fl. amer.* 2. p. 267.  
*Icon. Schkuhr filic.* t. 45. *b.*  
 In rocky shady places: Canada to Carolina.  $\gamma$ . July. *v. v.* Resembles the following.
- Filix mas*. 9. *A. frondibus bipinnatis, pinnulis oblongis obtusis serratis, serraturis muticis, soris costæ mediæ approximatis, stipite rachique paleaceis*. *Willd. sp. pl.* 5. p. 259.

Pol  
Pol  
Ico  
s  
 $\beta$ . A.  
t  
In  
C  
h  
q  
10. A. fr  
in  
le  
In P  
fo  
11. A. fr  
co  
tis  
pl.  
Polyp  
Polyp  
Polys  
Icon.  
ico  
In sha  
 $\gamma$ .  
12. A. fr  
nat  
lea  
Polyp  
Polyp  
Polyp  
Polyst  
Neph  
Icon.  
ic.  
In sha  
July  
bro  
\*\*\*\*\* P  
13. A. fro  
posi  
VOL. II.

*Polypodium Filix mas.* *Sp. pl.* 1551.

*Polystichum Filix mas.* *Roth. fl. germ.* 3. p. 82.

Icon. *Schkuhr filic.* t. 44. *Bolt. filic.* t. 24. *Moris. hist.* 3. s. 14. t. 3. f. 6.

β. *A. pinnulis eroso-serratis remotioribus.*—*Schkuhr filic.* t. 45.

*erosum.*

In shady pine forests : New Jersey to Virginia. β. in Carolina. 2. July. *v. v.* From two to three feet high ; the leaflets are more obtuse, and more frequently doubly serrated, than in the European plant.

10. *A. frondibus bipinnatis, pinnulis linearibus pinnatifido-incisis, lacinii apice submucronato-serratis, stipite paleaceo.* *Willd. sp. pl.* 5. p. 262. *intermedium.*

In Pennsylvania. *Muhlenberg.* 2. +. Resembles the following in several respects very much.

11. *A. frondibus bipinnatis, pinnulis oblongis decurrentibus confluentibus inciso-dentatis, lacinii mucronato-serratis, stipite paleaceo, indusiis glandulosis.* *Willd. sp. pl.* 5. p. 262. *spinulosum.*

*Polypodium spinulosum.* *Retz. prodr. fl. scand. n.* 1295.

*Polypodium cristatum.* *Hoffm. fl. germ.* 2. p. 8.

*Polystichum spinosum.* *Roth. fl. germ.* 3. p. 91.

Icon. *Schkuhr filic.* t. 48. *Fl. dan.* 707. *Fr. Mill. icon.* t. 2. f. 2.

In shady woods, in fertile soil : Pennsylvania to Virginia. 2. July. *v. v.* A large species.

12. *A. frondibus bipinnatis, pinnulis oblongis distinctis pinnatifido-incisis, lacinii mucronato-serratis, stipite paleaceo, indusiis lævibus.* *Willd. sp. pl.* 5. p. 263. *dilatatum.*

*Polypodium dilatatum.* *Hoffm. fl. germ.* 2. p. 7.

*Polypodium aristatum.* *Villars fl. delph.* 3. p. 844.

*Polypodium cristatum.* *Huds. angl.* 457.

*Polystichum multiflorum.* *Roth. fl. germ.* 3. p. 87.

*Nephrodium cristatum.* *Mich. fl. amer.* 2. p. 269.

Icon. *Schkuhr filic.* t. 47. *Bolt. filic.* t. 23. *Fr. Mill. ic. t. 2. f. 4.* *Pluk. alm. t.* 181. f. 2.

In shady rocky woods : Pennsylvania and Virginia. 2. July. *v. v.* Resembles *A. Filix femina* ; it is larger, broader, and more compound in its leaves.

\*\*\*\*\* *Frondibus bipinnatis triplicato-pinnatisve ; indusiis lateralibus.*

13. *A. frondibus bipinnatis oblongo-lanceolatis, pinnulis oppositis oblongis obtusis serratis, inferioribus pinnatifidis.* *bulbiferum.*

dis, rachi bulbifera, soris subrotundia. *Willd. sp. pl.* 5. p. 275.

*Polypodium bulbiferum. Sp. pl.* 1553.

*Nephrodium bulbiferum. Mich. fl. amer.* 2. p. 268.

Icon. *Schkuhr filic. t.* 57. *Corn canad.* 5. *Moris. hist.* 3. s. 14. t. 3. f. 10.

In shady woods, about rocks: Canada to Pennsylvania. 24. July. v. v. The leaf is narrow, and produces generally some small bulbs on its midrib.

- asplenioides.* 14. A. frondibus bipinnatis, pinnulis lineari-lanceolatis inciso-serratis, serraturis bi-s. tridentatis terminalibus acutioribus, soris oblongis lunatis. *Willd. sp. pl.* 5. p. 276.

*Nephrodium asplenioides. Mich. fl. amer.* 2. p. 268.

*Polypodium pennsylvanicum. Muhlb. in litt.*

*Asplenium Athyrium. Sprengel. anleit.* 3. p. 113.

Icon. *Schkuhr filic. t.* 78.

In shady woods, on the banks of rivulets and ditches: New England to Carolina. 24. July. v. v. A tall species, very much resembling the following in many respects.

- Filix femina.* 15. A. frondibus bipinnatis, pinnulis oblongo-lanceolatis inciso-serratis, serraturis bi-s. tridentatis acutiusculis, soris oblongis rectis. *Willd. sp. pl.* 5. p. 276.

A. alpestre. *Schkuhr filic. p.* 58.

*Polypodium Filix femina. Sp. pl.* 1551.

*Polypodium molle. Schreb. spicil.* 70.

*Polypodium dentatum, incisum et trifidum. Hoffm. fl. germ.* 2 p. 7.

*Athyrium molle, trifidum, ovatum et Filix femina. Roth. fl. germ.* 3. p. 61—65.

Icon. *Schkuhr filic. t.* 58. 59. & 60. *Pluk. phytogr. t.* 180. f. 4. *Moris. hist.* 3. s. 14. t. 3. f. 8.

In low shady grounds: Canada to Virginia. 24. July. v. v.

- angustum.* 16. A. frondibus bipinnatis, pinnulis lanceolatis inciso-serratis, serraturis subbidentatis, infima superiore elongata, soris oblongis sublunatis. *Willd. sp. pl.* 5 p. 277.

*Nephrodium Filix femina. Mich. fl. amer.* 2. p. 268.

In shady low woods: Canada to Pennsylvania. 24. July. v. v. Resembles the preceding.

- punctilobum.* 17. A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniis subquadridentatis, soro

solitario instructis, rachibus pubescentibus, stipite glabro. *Willd. sp. pl. 5. p. 279.*

*Nephrodium punctilobulum. Mich. fl. amer. 2. p. 268.*

In shady woods, on the banks of small rivulets: Canada to Virginia. *W. July. v. v.* From two to three feet high.

18. *A. frondibus bipinnatis, pinnulis decurrentibus ovato-oblongis pinnatifidis, laciniiis dentatis, soris sparsis. Willd. sp. pl. 5. p. 279.*

In Pennsylvania. *Muhlenberg. W. +.* Not much above a span high; fructification small.

19. *A. frondibus bipinnatis, pinnulis ovatis decurrentibus dentatis, soris solitariis juxta dentes pinnularum. Willd. sp. pl. 5. p. 279.*

*Nephrodium tenue. Mich. fl. amer. 2. p. 269.*

In clefts of rocks: Canada to Virginia. *W. July. v. v.*  
A small species; fructifications large.

20. *A. frondibus bipinnatis, pinnulis subtus paleaceo-setosis oblongis obtusis crenatis coadunatis, soris demum confluentibus. Willd. sp. pl. 5. p. 282.*

*Nephrodium rufidulum. Mich. fl. amer. 2. p. 269.*

On rocks: Canada to Pennsylvania. *W. July. v. v.*  
A small species, growing in large tufts; it resembles *Woodsia hyperborea* very much.

*atomarium.*

*tenue.*

*rufidulum.*

725. ONOCLEA. *Willd. in mag. ges. naturf. fr. z. berl. 1809. p. 160.*

1. *O. frondibus sterilibus pinnatis, pinnis lanceolatis acutis inciso-dentatis, superioribus coadunatis, fructificantibus bipinnatis, pinnulis recurvato-globosis glabris, rachi glabra.—Willd. sp. pl. 5. p. 287.*

*Icon. Schkuhr filic. t. 102. Pluk. mant. t. 404. f. 2. Breyer. cent. t. 56. f. B.*

In low pastures and open woods: New York to Florida. *W. July. v. v.* About a foot high; leaves pale green.

*sensibilis.*

2. *O. frondibus sterilibus pinnatis, pinnis oppositis pinnatifidis, lobis rotundatis: inferioribus sensim minoribus, superioribus coadunatis, fructificantibus bipinnatis, pinnulis incisive recurvato-globosis villosis, rachi squamosa.—Schkuhr filic. p. 93. t. 103.*

In low grounds: Pennsylvania. *W. July. v. v.* Not so large as the preceding.

*obtusilobata.*

726. STRUTHIOPTERIS. *Willd. in mag. ges. nat. fr. z. berl.* 1809. p. 160.

- pensylvanica*. 1. *S. frondibus sterilibus bipinnatifidiis, laciniis integerrimis obtusis, infima elongata acuta. Willd. sp. pl. 5. p. 289.*  
*Onoclea nodulosa. Schkuhr filic. p. 96. t. 104.*  
 In Pennsylvania. *Muhlenberg. 4. +.* Resembles *S. germanica*.

727. ASPLENIUM. *Swartz. synop. filic. p. 4.*

- rhizophyllum*. 1. *A. frondibus lanceolatis stipitatis subcrenatis, basi auriculato-cordatis, apice longissimo lineari-filiforme radiante. Willd. sp. pl. 5. p. 305.*  
*Icon. Pluk. alm. t. 105. f. 3. Petiv. gazoph. t. 105. f. 7. Moris. hist. 3. s. 14. t. 5. f. 14.*  
 On wet shady rocks: Canada to Carolina. 4. July. v. v. This fern is highly ornamental to rock-works, and very singular in its striking root at the elongated points of the leaves.
- angustifolium*. 2. *A. frondibus pinnatis, pinnis alternis, superioribus suboppositis, lineari-lanceolatis subrepandis, basi superiore truncatis, inferiore leviter rotundatis. Willd. sp. pl. 5. p. 313.*  
*A. pycnocarpon. Sprengel. anleit. 3. p. 112.*  
*Icon. Schkuhr filic. t. 67. 5 69. Moris. hist. 3. s. 14. t. 2. f. 25.*  
 In shady woods, on the banks of rivers: western parts of New York and Pennsylvania. 4. July. v. v. A very elegant fern about a foot high.
- eleneum*. 3. *A. frondibus pinnatis, pinnis sessilibus lanceolatis serrulatis basi cordatis, sursum auriculatis. Willd. sp. pl. 5. p. 329.*  
*A. polypodioides. Swartz synop. filic. 79. 5 272.*  
*A. trichomanoides. Mich. fl. amer. 2. p. 265.*  
*Acrostichum platyneuron. Sp. pl. 1527. excl. synonym.*  
*Icon. Schkuhr filic. t. 73. Pluk. alm. t. 287. f. 2. et t. 89. f. 8. Moris. hist. 3. s. 14. t. 2. f. 12.*  
 In clefts of rocks: New England to Carolina. 4. July. v. v. A small species.
- melanocaulon*. 4. *A. frondibus pinnatis, pinnis subrotundis obtusis crenatis basi cuneatis, stipite discolore. Willd. enum. 1072. Willd. sp. pl. 5. p. 332.*

*A. trichomanes*. Mich. fl. amer. 2. p. 264.

On rocks: Canada to Carolina. 2. July. v. v. Very small: stem polished, black.

5. *A. frondibus pinnatis, pinnis sessilibus lanceolatis acuminatis profunde pinnatifidis, laciniis oblongis obtusis obtuse-serratis, soris parallelis demum confluentibus.* *thelypterioi-*  
—Willd. sp. pl. 5. p. 336. des.

*A. acrostichoides*. Swartz. synop. filic. 82. & 275.

Icon. Schkuhr filic. t. 76. b.

In shady woods on the sides of rivulets: Pennsylvania to Carolina. 2. July. v. v. Resembles *Aspidium Thelypteris* very much; it is from eighteen inches to two feet high.

6. *A. frondibus basi bipinnatis, apice simpliciter pinnatis, pinnulis rhombeco-oblongis obtusis, apice obtuse denticulatis.* *Ruta mura-*  
Willd. sp. pl. 5. p. 341. ria.

Icon. Schkuhr filic. t. 80. b. Fl. dan. 190.

In clefts of rocks: New York to Carolina. 2. July. v. v. The American plant is very small, scarcely ever exceeding an inch or two in height.

7. *A. frondibus glabris bipinnatis, pinnulis lanceolatis pinnatifidis, laciniis tri- vel bidentatis.*—Willd. sp. pl. 5. p. 342. *montanum.*

*A. Adiantum nigrum*. Mich. fl. amer. 2. p. 265.

In clefts of rocks, on the mountains of Virginia and Carolina. 2. July. v. v. A much smaller plant than *A. nigrum*, to which it has some resemblance.

728. SCOLOPENDRIUM. Smith act. taur. 5. p. 410.  
t. 9. f. 2.

1. *S. frondibus lato-lanceolatis basi cordatis, stipite paleaceo.* *officinarium.*  
Willd. sp. pl. 5. p. 348.

*Asplenium Scolopendrium*. Sp. pl. 1537.

Icon. Schkuhr filic. t. 83. Pluk. phytogr. t. 248. f. 1.

In shady woods, among loose rocks in the western parts New York, near Onondago, on the plantations of J. Geddis, Esq. 2. July. v. v. This species I have seen in no other place but that here mentioned, neither have I had any information of its having been found in any other part of North America.

## 729. PTERIS. Gen. pl. 1626.

- pedata*. 1. *P. frondibus profundissime quinquelobo-palmatis, lobis pinnatifidis, laciniis lineari-lanceolatis acutis, infima lobi intermedi utrinque pinnatifida, lobo intermedio basi longissime cuneato, sinubus acutis.*—*Willd. sp. pl. 5. p. 358.*  
*Icon. Schkuhr filic. t. 100. Plum. amer. t. 34. fil. t. 152. Petiv. filic. t. 8. f. 12. Pluk. alm. t. 286. f. 5.*  
 On rocks: Virginia.  $\mathcal{U}$ . July. *v. s.* About six inches high.
- atropurpurea*. 2. *P. frondibus pinnatis, pinnis inferioribus ternatis pinnatisve lanceolatis obtusis, basi obtuse truncatis subcordatisve.* *Willd. sp. pl. 5. p. 375.*
- venosa*.  $\alpha$ . *P. pinnulis subtus venosis, stipite angulato.*  
*Icon. Schkuhr filic. t. 101. Pluk. mant. t. 349. f. 1.*
- punctata*.  $\beta$ . *P. pinnulis subtus punctatis, stipite terete.*  
*P. spiculata. Schkuhr filic. t. 100.*  
 In clefts of rocks: Pennsylvania to Carolina.  $\mathcal{U}$ . July. *v. v.* About a span high; grayish-green with dark purple stems.
- gracilis*. 3. *P. frondibus pinnatis, pinnis lanceolatis obtusis alternis sessilibus, inferioribus pinnatifidis, fertilibus integerrimis, sterilibus crenatis rotundato-obtusis.* *Willd. sp. pl. 5. p. 376.*  
 On rocks in Canada. *Michaux. \mathcal{U}. July. *v. s.* Not above four inches high; stems yellowish-green, smooth and shining.*
- caudata*. 4. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnulis linearibus elongatis obtusis integerrimis, inferioribus bipinnatifidis, fructificantibus pinnatis, pinnis remotiusculis inferioribus basi pinnatifido-dentatis.*—*Willd. sp. pl. 5. p. 401.*  
*Icon. Jacq. ic. rar. 3. t. 645. Plum. amer. t. 22. filic. t. 29.*  
 In shady stony woods, on the side of rivulets: Pennsylvania to Carolina.  $\mathcal{U}$ . Aug. *v. v.*
- aquilina*. 5. *P. fronde pinnato-tripartita, ramis sterilibus bipinnatis, pinnis lineari-lanceolatis obtusis pinnatifido-dentatis, fructificantibus pinnatis, pinnulis pinnatifidis, laciniis acutiusculis, omnibus ciliatis.*—*Willd. sp. pl. 5. p. 402.*  
*Icon. Schkuhr filic. t. 95. 96. b. Plum. filic. t. A. f. 1.*  
 In dry barren woods: Canada to Florida.  $\mathcal{U}$ . Aug.

v. v. It deviates in some respects from the European plant, but is not sufficiently distinct to form a separate species, as it is well known how much the European species itself assumes different appearances in different soils.

730. VITTARIA. *Smith act. taur. 5. p. 413. t. 9. f. 5.*

1. V. frondibus linearibus longissimis pendulis, soris solitariis intra marginalibus. *Willd. sp. pl. 5. p. 404.*

*lineata.*

V. angustifrons. *Mich. fl. amer. 2. p. 261.*

Pteris lineata. *Sp. pl. 1530.*

Icon. *Schkuhr filic. t. 101. b. Plum. amer. t. 41. filic. t. 143. Petiv. filic. t. 14. f. 3.*

On the banks of the rivulet Aisa-hatcha, Florida. *Michaux. 4. +.* The leaves resemble those of a common grass.

731. BLECHNUM. *Gen. pl. 1627.*

1. B. frondibus sterilibus pinnatifidis, laciniis lanceolatis obtusiusculis parallelis, fructiferis pinnatis, pinnis linearibus acuminatis. *Willd. sp. pl. 5. p. 408.*

*boreals.*

B. Spicant. *Roth. fl. germ. 3. p. 44.*

Onoclea Spicant. *Hoffm. fl. germ. 2. p. 11.*

Osmunda Spicant. *Sp. pl. 1522.*

Icon. *Schkuhr filic. t. 110. Fl. dan. 99. Bolt. filic. t. 6. Moris. hist. 3. s. 14. t. 2. f. 23.*

On the north-west coast. *M. Lewis. 4. Aug. v. s. in Herb. Lewis.*

2. B. frondibus pinnatis, pinnis lanceolatis utrinque attenuatis basi decurrentibus argute serratis. *Willd. sp. pl. 5. p. 411.*

*serrulatum.*

On the banks of the rivulet Aisa-hatcha, Florida. *Michaux. 4. +.*

732. WOODWARDIA. *Smith act. taur. 5. p. 411. t. 9. f. 5.*

1. W. frondibus sterilibus pinnatifidis, laciniis lanceolatis repandis tenuissime serrulatis, fructiferis pinnatis, pinnis linearibus integerrimis acutis. *Willd. sp. pl. 5. p. 416.*

*onocleoides*

W. angustifolia. *Smith act. taur. 5. p. 411.*

W. floridana. *Schkuhr filic. p. 103. t. 111.*

Onoclea nodulosa. *Mich. fl. amer. 2. p. 272. Swartz. synop. filic. 111.*

*Acrostichum areolatum* *So. pl.* 1526.

*Osmunda caroliniana* *Walt. fl. car.* 257.

Icon. *Schkuhr l. c.* *Pluk. phytogr. t.* 399. *f.* 1. *Moris. hist.* 3. *s.* 14. *t.* 2. *f.* 24.

In cedar and cypress-swamps: New Jersey to Florida.  $\mathcal{U}$ . Aug. *v. v.* About a foot high.

*virginica.*

2. *W. frondibus glaberrimis pinnatis, pinnis sessilibus lanceolatis pinnatifidis, laciniis oblongis obtusis crenulatis, fructiferis elongatis, stipite glabro tereti.*—*Willd. sp. pl.* 5. *p.* 418.

*W. Banisteriana* *Mich. fl. amer.* 2. *p.* 263.

*Blechnum virginicum* *Mant.* 307.

*Blechnum carolinianum* *Walt. fl. car.* 257.

Icon. *Pluk. alm. t.* 179. *f.* 2.

In swamps and shady woods: Virginia and Carolina.  $\mathcal{U}$ . July. *v. v.* Above a foot high.

*thelypteroides.*

3. *W. frondibus pinnatis, pinnis sessilibus basi villosis lineari-lanceolatis pinnatifidis, laciniis sterilibus oblongis obtusiusculis, fertilium abbreviato-triangularibus acutis, omnibus integerrimis, stipite pubescente angulato.* In sandy swamps: South Carolina, near Charlestown.  $\mathcal{U}$ . July. *v. v.* Resembles the preceding, but is not half the size.

### 733. ADIANTUM. *Gen. pl.* 1633.

*pedatum.*

1. *A. fronde pedata, ramis pinnatis, pinnis dimidiatis oblongis lunatis margine superiore incis, laciniis sterilibus dentatis, fertilibus integerrimis, soris linearibus, stipite glabro.* *Willd. sp. pl.* 5. *p.* 438.

Icon. *Schkuhr filic. t.* 115. *Pluk. alm. t.* 124. *f.* 2. *Corn. canad. t.* 6.

In shady woods: Canada to Virginia.  $\mathcal{U}$ . July. *v. v.* A very elegant fern.

### 734. CHEILANTHES. *Swartz. synop. filic. p.* 5.

*vestita.*

1. *C. frondibus bipinnatis utrinque hirtis, pinnulis pinnatifidis, laciniis oblongis obtusis integerrimis, stipite rachibusque hirtis.* *Willd. sp. pl.* 5. *p.* 458.

*Adiantum vestitum* *Sprengel. anleit.* 3. *p.* 122.

*Aspidium lanosum* *Swartz. synop. filic. p.* 58.

*Neprodium lanosum* *Mich. fl. amer.* 2. *p.* 270.

Icon. *Schkuhr filic. t.* 124.

On rocks

$\mathcal{U}$ . Ju

with l

2. *C. frondi*

tis apic

On rocks

A very

*C. tenu*

735.

1. *D. frondi*

natifidi

chibus

*D. pubes*

Polypodi

In shady

$\mathcal{U}$ . *v.*

*dilatatu*

### 736. HYME

1. *H. frondi*

rioribus

bus obt

alatis ci

*Trichoma*

In shady

nia and

V.

1. *I. frondib*

*p.* 534.

Icon. *Sch*

*t.* 80. *f.*

On rocks,

Oswego

gular pl

high.

On rocks : Pennsylvania to Virginia and on the Missouri.  
 ♀. July. v. v. A handsome very small fern, covered  
 with long brownish hair.

2. *C. frondibus triplicato-pinnatis, pinnulis ovalibus distinctis apice crenatis aut emarginatis subtus dealbatis.*

*dealbata.*

On rocks, on the banks of the Missouri. ♀. July. v. s.  
 A very delicate small fern, very much resembling  
*C. tenuifolia*.

735. DICKSONIA. *L'Herit. sert. angl.* 30.

1. *D. frondibus bipinnatis, pinnulis oblongo-lanceolatis pinnatifidis, laciniiis margine superiore inciso-dentatis, rachibus pilosiusculis.* *Willd. sp. pl. 5. p. 484.*

*pilosiuscula.*

*D. unbesceus. Schkuhr filic. p. 125. t. 131.*

*Polypodium pilosiusculum. Muhl. in litt.*

In shady woods, among rocks : Pennsylvania and Virginia.  
 ♀. v. v. A foot or more high, resembling *Aspidium dilatatum*.

736. HYMENOPHYLLUM. *Smith act. taur.* 5. p. 418.

1. *H. frondibus pinnatis, pinnis infimis majoribus, superioribus sen-im minoribus pinnatifidis, laciniiis linearibus obtusis bifidis ciliatis, venis hirtis, rachi stipiteque alatis ciliatis.* *Willd. sp. pl. 5. p. 519.*

*ciliatum.*

*Trichomanes ciliatum. Swartz. prodr.* 136.

In shady forests, on the trunks of old trees : Pennsylvania and Virginia. ♀. v. v.

## V. HYDROPTERIDES.

737. ISOETES. *Gen. pl.* 1620.

1. *I. frondibus subulatis semiteretibus.* *Willd. sp. pl. 5. p. 534.*

*lacustris.*

Icon. *Schkuhr filic. t. 173. Fl. dan. 191. Dill. musc. t. 80. f. 1.*

On rocks, on the bottom of rivers : New York, in the Oswego river, near the Falls. ♀. v. v. This singular plant, resembling a zoophyte, is about two inches high.

738. SALVINIA. *Gen. pl.* 1617.*natans.*

1. *S. foliis ellipticis obtusis supra fasciculato-setosis, petiolis pilosis, fructibus subsessilibus aggregatis.* *Willd. sp. pl.* 5. p. 536.

*Marsilea natans.* *Sp. pl.* 1562.

Icon. *Schkuhr filic. t.* 173. *Lam. illust.* 863.

Floating, like *Lemna*, on the surface of stagnant waters : in several of the small lakes in the western parts of New York and Canada. ☉. *v. v.*

739. AZOLLA. *Lam. encycl.* 1. p. 340.*caroliniana.*

1. *A. foliis imbricatis ovato-oblongis obtusis patentibus subtus rubris.*—*Willd. sp. pl.* 5. p. 541.

Floating on the waters of Lake Ontario. ☉. *v. v.*  
Resembles a floating moss or *Jungermannia*.

FINIS.

AN

MO

*Gyllingia.* 47.  
*Canna.* 585.

• M

*Agrostis.* 64. 8

DI

*Salicornia.* 2.  
*Lepidium.* 4  
*Salix.* 608.

I

*Podostemum.* 3  
*Holcus.* 78.

TRI

*Galium.* 102.  
*Juncus.* 237  
*dica.* 444.

T

*Salix.* 608. C

TI

*Amaranthus.* 2  
*Polygonum.*

sis, petiolis  
Willd. sp.

ant waters :  
rn parts of

10.

antibus sub-

©. v. v.  
2.

## TABLE

OF

### ANOMALOUS FLOWERS.

#### MONANDRIA. MONOGYNIA.

Kyllingia. 47. Cyperus. 80. Scirpus. 54. Thalia. 584.  
Canna. 585. ORCHIDEÆ omnes 585—594.

#### • MONANDRIA. DIGYNIA.

Agrostis. 64. Saccharum. 73. Uniola. 84. Alchemilla. 112.

#### DIANDRIA. MONOGYNIA.

Gallicornia. 2. Boerhavia. 31. Kyllingia. 46. Anychia. 176.  
Lepidium. 435. Cypripedium. 594. Vallisneria. 602.  
Salix. 608.

#### DIANDRIA. DIGYNIA.

Podosternum. 3. Muhlenbergia. 61. Anthoxanthum. 65.  
Holcus. 78. Festuca. 83. Salix. 608.

#### TRIANDRIA. MONOGYNIA.

Galium. 102. Anychia. 176. Prinos. 220. Brodiaea. 223.  
Juncus. 237. Melothria. 444. Sicyos. 444. Momor-  
dica. 444.

#### TRIANDRIA. DIGYNIA.

Salix. 608. Comptonia. 635.

#### TRIANDRIA. TRIGYNIA.

Amaranthus. 206. Triglochin. 247. Phyllanthus. 443.  
Polygonum. 269. Tragia. 604. Juniperus. 646.

**TETRANDRIA. MONOGYNIA.**

Gratiola. 12. Elytraria. 13. Monarda. 16. Collinsonia. 20.  
 Anythia. 176. Prinos. 220. Smilacina. 233. Clarcia.  
 260. Pothos. 398. *Class. XIII. DIDYNAMIA.* 408  
 —431. Diotis. 602. Alaus. 622.

**TETRANDRIA. DIGYNIA.**

Gentiana. 185. Myrica. 620. Juglans. 636. Morus. 639.  
 Cupressus. 645. Thuya. 646.

**TETRANDRIA. TETRAGYNIA.**

Proserpinaca. 92. Myriophyllum. 274.

**PENTANDRIA. MONOGYNIA.**

Catalpa. 10. Cornus. 107. Echites. 178. Gonolobium.  
 178. Apocynum. 179. Asclepias. 180. Ceropegia. 184.  
 Amsonia. 184. Gelseminum. 184. Gentiana. 185.  
 Prinos. 220. Polygonum. 269. Cassia. 307. Passiflora.  
 444. Illecebrum. 445. Galax. 446. Lobelia. 446.  
 Petalostemum. 461. *Class. XVII. SYNGENESIA.*  
 491—582.

**PENTANDRIA. DIGYNIA.**

Polygonum. 270. Scleranthus. 315. Iresine. 445. Salix.  
 608. Quercus. 625.

**PENTANDRIA. TRIGYNIA.**

Polygonum. 270. Arenaria. 319. Hypericum. 378. Pas-  
 siflora. 444.

**PENTANDRIA. PENTAGYNIA.**

Spergula. 320. Cerastium. 320.

**HEXANDRIA. MONOGYNIA.**

Commelina. 31. Trientalis. 252. Laurus. 274. Lythrum.  
 334. *Class. XIV. TETRADYNAMIA.* 432—441.  
 Corydalis. 462. Fumaria. 463. Aristolochia. 596.

**HEXANDRIA. DIGYNIA.**

Polygonum. 271.

**HEXANDRIA. TRIGYNIA.**

Lechea. 90.

**HEXA**

Myriophyllum. 2

**HEPT**

Sabbatia. 137.

**HEP**

Polygonum. 271

**HEPT**

Saururus. 252.

**OCTA**

Esculus. 253.

notropa. 303.

lus. 618.

**OCT**

Polygonum. 271.

**OCTA**

Myriophyllum. 2

**OCTA**

Sedum. 323.

**ENNE**

Acer. 267.

**ENNI**

Lechea. 90. Elo

**DECA**

Sabbatia. 137. A

264. Jeffersoni

Galax. 446. G

*Class. XVI. D*

Carpinus. 623.

**DEC**

Chrysosplenium. 2

**DEC**

atropa. 603.

nea. 624.

## HEXANDRIA. TETRAGYNIA.

Myriophyllum. 274.

## HEPTANDRIA. MONOGYNIA.

Sabbatia. 137.

## HEPTANDRIA. TRIGYNIA.

Polygonum. 271.

## HEPTANDRIA. TETRAGYNIA.

Saururus. 252.

## OCTANDRIA. MONOGYNIA.

Esculus. 253. Ganthieria. 282. Vaccinium. 284. Monotropa. 303. Halesia. 449. Polygala. 464. Populus. 618.

## OCTANDRIA. DIGYNIA.

Polygonum. 271. Corylus 634.

## OCTANDRIA. TETRAGYNIA.

Myriophyllum. 274.

## OCTANDRIA. PENTAGYNIA.

Sedum. 323.

## ENNEANDRIA. MONOGYNIA.

Acer. 267.

## ENNEANDRIA. TRIGYNIA.

Lechea. 90. Elodea. 379.

## DECANDRIA. MONOGYNIA.

Sabbatia. 137. Azalea. 151. Asclepias. 180. Menziesia. 264. Jeffersonia. 268. Lythrum. 334. Portulacca. 365. Galax. 446. Geranium. 448. Halesia. 449. Styra. 450. Class. XVI. *DIADELPHIA*. 466—490. Betula. 620. Carpinus. 623. Ostrya. 623.

## DECANDRIA. DIGYNIA.

Chrysosplenium. 269. Fagus. 624. Quercus. 625.

## DECANDRIA. TRIGYNIA.

Jatropha. 603. Croton. 603. Acalypha. 604. Castanea. 624.

## DECANDRIA. PENTAGYNIA.

Drosera. 210. Portulacca. 365. Geranium. 448.

## DODECANDRIA. MONOGYNIA.

Sabbatia. 137. Decumaria. 328. Lythrum. 334. Cypripedium. 335. Bejaria. 362. Hudsonia. 364. Talinum. 365. Portulacca. 365. Cleome. 441. Halesia. 449. Styra. 450. Asarum. 596. Betula. 620.

## DODECANDRIA. DIGYNIA.

Agrimonia. 335. Calligonum. 370. Fagus. 624.

## DODECANDRIA. TRIGYNIA.

Datisca. 370. Menispermum. 371. Elodea. 379. Croton. 603. Acalypha. 604. Euphorbia. 605.

## POLYANDRIA. MONOGYNIA.

Jeffersonia. 268. Class. XV. *MONADELPHIA*. Polyandria. 449.—456. Asarum. 596. Taxus. 647.

## POLYANDRIA. DIGYNIA.

Fothergill. 335.

## POLYANDRIA. TRIGYNIA.

Ricinus. 602. Juglans. 636. Zamia. 648.

## POLYANDRIA. TETRAGYNIA.

Myriophyllum. 274.

## POLYANDRIA. POLYGYNIA.

Zostera. 2.

## DIDYNAMIA. GYMNOSPERMIA.

Lycopus. 16. Monarda. 16. Salvia. 19. Collinsonia. 20.

## DIDYNAMIA. ANGIOSPERMIA.

Catalpa. 10. Gratiola. 12. Elytraria. 13.

## MONADELPHIA. TRIANDRIA.

Sisyrinchium. 31. Pistia. 268.

## MONADELPHIA. PENTANDRIA.

Anagallis. 135. Lysimachia. 135. Linum. 210. Petalostemum. 461.

MO

Cardiosperm

MO

Acacia. 305.

DIADEL

MON

Pinus. 639.

DI

Podalyria. 307.

POL

Ascyrum. 379.

451.

SY

Solanum. 156.

444. Mon

GY

Passiflora. 444.

GY

Cleome. 441.

GY

Zostera. 2.

M

Zostera. 2.

Callitriche.

Arum. 399.

Podostemum.

M

Sparganium.

Zea. 46.

Sorghum. 7

88. Erioc

Phyllanthu

cyos. 444.

**MONADELPHIA. OCTANDRIA.**

Cardiospermum. 273. Polygala. 464.

**MONADELPHIA. DECANDRIA.**Acacia. 305. Schrankia. 305. Oxalis. 322. *Class. XVI.***DIADELPHIA.** Decandria. 466—490.**MONADELPHIA. POLYANDRIA.**

Pinus. 639.

**DIADELPHIA. DECANDRIA.**

Podalyria. 307. Cercis. 308. Virgilia. 309.

**POLYADELPHIA. POLYANDRIA.**

Ascyrum. 373. Hypericum. 374. Elodea. 379. Hopea. 451.

**SYNGENESIA. MONOGAMIA.**

Solanum. 156. Impatiens. 171. Viola. 171. Melothria. 444. Momordica. 444. Sicyos. 444. Lobelia. 446.

**GYNANDRIA. PENTANDRIA.**

Passiflora. 444.

**GYNANDRIA. HEXANDRIA.**

Cleome. 441.

**GYNANDRIA. POLYANDRIA.**

Zostera. 2. Pothos. 398. Calla. 399. Arum. 399.

**MONOECIA. MONANDRIA.**

Zostera. 2. Caulinia. 2. Salicornia. 2. Hippuris. 3. Callitriche. 3. Zannichellia. 4. Chara. 4. Calla. 399. Arum. 399. Liquidambar. 635. Platanus. 635.

**MONOECIA. DIANDRIA.**

Podostemum. 3. Fraxinus. 8. Lemna. 22.

**MONOECIA. TRIANDRIA.**

Sparganium. 33. Typha. 34. Carex. 34. Scleria. 45. Zea. 46. Milium. 63. Andropogon. 74. Holcus. 78. Sorghum. 78. Chloris. 87. Rotboellia. 88. Tripsacum. 88. Eriocaulon. 91. Empetrum. 93. Amaranthus. 206. Phytanthus. 443. Melothria. 444. Momordica. 444. Sicyos. 444. Tragia. 604. Comptonia. 635.

## MONOECIA. TETRANDRIA.

Serpicula. 33. Boehmeria. 112. Urtica. 112. Parietaria. 114. Planera. 115. Pachysandra. 117. Myriophyllum. 274. Alnus. 622. Morus. 639.

## MONOECIA. PENTANDRIA.

Nyssa. 177. Panax. 191. Atriplex. 199. Celtis. 200. Rhus. 204. Crotonopsis. 206. Amaranthus. 206. Zantorrhiza. 212. Schisandra. 212. Iva. 580. Ambrosia. 580. Xanthium. 581. Fagus. 624. Quercus. 625.

## MONOECIA. HEXANDRIA.

Zizania. 60. Eriocaulon. 91. Planera. 115. Celtis. 200. Melanthium. 240. Veratrum. 242. Myriophyllum. 274. Betula. 620. Quercus. 625.

## MONOECIA. OCTANDRIA.

Acer. 265.

## MONOECIA. POLYANDRIA.

Sparganium. 33. Acer. 267. Myriophyllum. 274. Laurus. 275. Acacia. 305. Schrankia. 305. Chrysobalanus. 329. Ceratophyllum. 370. Sagittaria. 395. Potchos. 399. Calla. 399. Arum. 399. Betula. 620. Carpinus. 623. Ostrya. 623. Fagus. 624. Castanea. 624. Quercus. 625. Corylus. 634. Juglans. 636. Liquidambar. 635. Platanus. 635.

## MONOECIA. MONADELPHIA.

Podostemum. 3. Phyllanthus. 443. Melothria. 444. Momordica. 444. Sicyos. 444. Ricinus. 602. Jatropha. 603. Croton. 603. Acalypha. 604. Euphorbia. 605. Stillingia. 608. Platanus. 635. Pinus. 639. Cupressus. 645. Thuja. 646.

## MONOECIA. SYNGENESIA.

Schisandra. 212. Melothria. 444. Momordica. 444. Sicyos. 444.

## DIOECIA. MONANDRIA.

Najas. 602. Salix. 608.

Olea. 7.   
 lisneria.

Carex. 34.   
 220. S.

Urtica. 112   
 115. Il.

Caprifolium   
 178. Z   
 Cannabis   
 Acnida.   
 sine. 445.

Prinos. 220   
 mex. 249

Diosyros. 2   
 618.

Gymnocladu

D

Calligonu

Spiræa. 343.

Menispermum   
 Sagittaria.

D

Iresine. 445.

## DIOECIA. DIANDRIA.

Olea. 7. Fraxinus. 8. Ceratiola. 21. Borya. 22. Val-  
lisneria. 602. Salix. 608.

## DIOECIA. TRIANDRIA.

Carex. 34. Empetrum. 93. Zanthoxylum. 209. Prinos.  
220. Salix. 608.

## DIOECIA. TETRANDRIA.

Urtica. 112. Viscum. 114. Elæagnus. 114. Hippophæe.  
115. Ilex. 117. Prinos. 220. Myrica. 620.

## DIOECIA. PENTANDRIA.

Caprifolium. 161. Vitis. 169. Nyssa. 177. Hamiltonia.  
178. Zizyphus. 188. Panax. 191. Atriplex. 199.  
Cannabis. 199. Humulus. 199. Celtis. 200. Rhus. 204.  
Acnida. 208. Zanthoxylum. 209. Prinos. 220. Ire-  
sine. 445. Salix. 608.

## DIOECIA. HEXANDRIA.

Prinos. 220. Gleditschia. 221. Chamaerops. 239. Ru-  
mex. 249. Smilax. 249. Dioscorea. 251. Laurus. 275.

## DIOECIA. OCTANDRIA.

Diosyrys. 265. Acer. 268. Polygonum. 272. Populus.  
618.

## DIOECIA. DECANDRIA.

Gymnocladus. 304.

## DIOECIA. DODECANDRIA.

Calligonum. 370. Datisca. 370. Menispermum. 370.

## DIOECIA. ICOSANDRIA.

Spiræa. 343. Rubus. 346.

## DIOECIA. POLYANDRIA.

Menispermum. 370. Clematis. 384. Thalictrum. 388.  
Sagittaria. 395. Arum. 399. Populus. 618. Zamia. 648.

## DIOECIA. MONADELPHIA.

Iresine. 445. Sida. 453. Juniperus. 646. Taxus. 646.

## POLYGAMIA. MONOECIA.

Fraxinus. 8. Andropogon. 74. Atheropogon. 75. Holcus. 78. Sorghum. 78. Chloris. 87. Parietaria. 114. Planera. 115. Ilex. 117. Atriplex. 199. Celtis. 200. Rhus. 204. Zanthorhiza. 212. Melanthium. 240. Veratrum. 242. Æsculus. 254. Acer. 265. Acacia. 305. Schrankia. 305.

## POLYGAMIA. DIOECIA.

Fraxinus. 8. Empetrum. 93. Nyssa. 177. Hamiltonia. 178. Panax. 191. Gleditschia. 221. Chamærops. 239. Diospyros. 265.

Acer.

— s

— N

— st

Achillea.

— M

— P

Acnida.

Aconitum.

Acorus.

Acrostichum.

Actæa.

Adiantum.

Æsculus.

Agave.

Agrimonia.

Agrostemma.

Agrostis.

Aira.

Ajuga.

Alchemilla.

— Apl

Aletris.

Alisma.

Allium.

Alnus.

Alopecurus.

Hol-  
a. 114.  
a. 200.  
D. Ve-  
a. 305.

niltonia.  
ps. 239.

## LATIN AND ENGLISH

### INDEX.

<b>Acet.</b>	<i>Maple-tree.</i>	265
— saccharinum.	<i>Sugar-tree.</i>	266
— Negundo.	<i>Flowering Ash. Box Elder.</i>	268
— striatum.	<i>Moose-wood.</i>	267
<b>Achillea.</b>	<i>Milfoil.</i>	562
— Millefolium.	<i>Yarrow.</i>	563
— Parmica.	<i>Sneeze-wort.</i>	562
<b>Acnida.</b>	<i>River-hemp.</i>	208
<b>Aconitum.</b>	<i>Wolf's-bane. Monk's-hood.</i>	372
<b>Acorus.</b>	<i>Sweet-flag.</i>	235
<b>Acrostichum.</b>	<i>Full-fern.</i>	658
<b>Actæa.</b>	<i>Herb Christopher. Baneberry.</i>	
	<i>Red and White Cohosh.</i>	366
<b>Adiantum.</b>	<i>Maiden-hair.</i>	733
<b>Æsculus.</b>	<i>Horse Chesnut. Buck's-eye</i>	
	<i>Tree.</i>	254
<b>Agave.</b>	<i>Sweet Virginian Aloe.</i>	226
<b>Agrimonia.</b>	<i>Agrimony.</i>	335
<b>Agrostemma.</b>	<i>Corn Cockle.</i>	321
<b>Agrostis.</b>	<i>Bent-grass.</i>	63
<b>Aira.</b>	<i>Hair-grass.</i>	76
<b>Ajuga.</b>	<i>Bugle. Ground Pine.</i>	404
<b>Alchemilla.</b>	<i>Ladies' Mantle.</i>	112
— Aphanes.	<i>Parsley-piert.</i>	112
<b>Aletris.</b>	<i>Star-wort. Devil's-bit.</i>	225
<b>Alisma.</b>	<i>Water Plantain.</i>	352
<b>Allium.</b>	<i>Garlic.</i>	222
<b>Alnus.</b>	<i>Alder.</i>	622
<b>Alopecurus.</b>	<i>Fox-tail grass.</i>	65

Alyssum.	<i>Mad-wort.</i>	434
Amaranthus.	<i>Amaranth.</i>	206
—— Blitum.	<i>Blite.</i>	267
—— hypochondriacus.	<i>Prince's Feather.</i>	207
Amaryllis.	<i>Atamasco Lily.</i>	222
Ambrosia.	<i>Hog- or Iron-weed.</i>	580
Ammi.	<i>Bishop's-weed.</i>	192
Ammyrsine.	<i>Sand-myrtle.</i>	301
Amorpha.	<i>Bastard Indigo.</i>	466
Anagallis.	<i>Pimpernel.</i>	135
Andromeda.	<i>Bastard Huckle-berry.</i>	290
—— arborea.	<i>Sorrel-tree.</i>	293
—— polifolia.	<i>Wild Rosemary.</i>	291
Andropogon.	<i>Man's Beard.</i>	74
Anemone.	<i>Anemone. Wind-flower.</i>	386
Anthemis.	<i>Chamomile.</i>	562
—— arvensis.	<i>May-weed.</i>	662
Anthoxanthus.	<i>Spring- or Sweet-grass.</i>	63
Antirrhinum.	<i>Snap dragon.</i>	421
—— Elatine.	<i>Fluellin.</i>	421
—— Linaria.	<i>Toad-flax.</i>	421
—— Orontium.	<i>Calf's Snout.</i>	422
Apocynum.	<i>Dog's Bane. Indian Hemp.</i>	179
Aquilegia.	<i>Columbine. Honey-suckle.</i>	372
Arabis.	<i>Wall-cress.</i>	436
Aralia nudicaulis.	<i>Sarsaparilla.</i>	209
—— hispida.	<i>Poison Elder.</i>	209
—— spinosa.	<i>Angelica-tree.</i>	209
—— racemosa.	<i>Spikenard.</i>	209
Arbutus.	<i>Strawberry-tree.</i>	282
—— Uva ursi.	<i>Bear-berry. Saca-commis.</i>	283
Arctium.	<i>Burdock. Clot-bur.</i>	505
Arenaria.	<i>Sand-wort.</i>	317
Aristolochia.	<i>Birth-wort.</i>	596
—— Serpentaria.	<i>Virginia Snake-root.</i>	596
Artemisia.	<i>Wormwood.</i>	521
—— Dracunculus.	<i>Tarragon.</i>	521
—— vulgaris.	<i>Mug-wort.</i>	522
Arum.	<i>Wake-Robin.</i>	399
—— Dracontium.	<i>Green Dragon.</i>	400
Arundo.	<i>Reed-grass.</i>	86
—— arenaria.	<i>Sea-mat-grass.</i>	87
Asarum.	<i>Asarubacca.</i>	596
—— canadense.	<i>Wild Ginger. Colt's Foot.</i>	596
Asclepias.	<i>Swallow-wort.</i>	160

Asclep

Ascyru

Aspidiu

Asplen

Aster.

Astraga

Atriplex

Avena.

Azalea.

Bacchar

Batschia

Bejaria.

Bellis.

Berberis

Betula.

—— ler

Bidens.

Bignonia

Blechnu

Blitum.

Botrychi

Brassica.

Briza.

Bromus.

Buphthal

Cactus.

Cakile.

Callitrich

Caltha.

Calycanth

Campanu

Canna.

Cannabis.

Caprifoliu

Cardamine

Cardiospe

Carduus.

Carex.

Carpinus.

434	<i>Asclepias tuberosa.</i>	<i>Ipecacuanha. Butterfly-</i>	
206		<i>flower.</i>	183
207	<i>Ascyrum Crux.</i>	<i>St. Andrew's Cross.</i>	373
222	<i>Aspidium.</i>	<i>Shield Fern.</i>	660
580	<i>Asplenium.</i>	<i>Spleen-wort.</i>	666
192	— <i>Ruta muraria.</i>	<i>Wall-Rue.</i>	667
301	<i>Aster.</i>	<i>Star-wort.</i>	532
466	<i>Astragalus.</i>	<i>Milk Vetch.</i>	472
135	<i>Atriplex.</i>	<i>Orache.</i>	199
290	<i>Avena.</i>	<i>Oat-grass. Oats.</i>	85
205	<i>Azalea.</i>	<i>Upright or American Honey-</i>	
291		<i>suckle.</i>	151
74	<i>Baccharis.</i>	<i>Groundsel-tree.</i>	523
386	<i>Batschia.</i>	<i>Puccoon. Indian Paint.</i>	132
562	<i>Bejaria.</i>	<i>Catch-fly-bush.</i>	362
662	<i>Bellis.</i>	<i>Daisy.</i>	526
65	<i>Berberis.</i>	<i>Berberry. Pipperidge.</i>	219
421	<i>Betula.</i>	<i>Birch-tree.</i>	620
421	— <i>lenta.</i>	<i>Mountain-Mahogany.</i>	621
421	<i>Bidens.</i>	<i>Bur-marygold.</i>	566
422	<i>Bignonia.</i>	<i>Trumpet-flower.</i>	419
p. 179	<i>Blechnum.</i>	<i>Rib Fern.</i>	669
372	<i>Blitum.</i>	<i>Strawberry-blite.</i>	4
436	<i>Botrychium.</i>	<i>Rattle Snake Fern.</i>	655
209	<i>Brassica.</i>	<i>Cabbage.</i>	438
209	<i>Briza.</i>	<i>Quaking-grass.</i>	82
209	<i>Bromus.</i>	<i>Brome-grass.</i>	85
209	<i>Bupthalmum.</i>	<i>Ox-eye.</i>	563
282			
283	<i>Cactus.</i>	<i>Prickly-pear. Indian Fig.</i>	327
505	<i>Cakile.</i>	<i>Sea-rocket.</i>	434
317	<i>Callitriche.</i>	<i>Water Star-wort.</i>	3
596	<i>Caltha.</i>	<i>Marsh-marygold.</i>	389
596	<i>Calycanthus.</i>	<i>Carolina Allspice. Sweet-</i>	
521		<i>scented shrub.</i>	357
521	<i>Campanula.</i>	<i>Bell-flower.</i>	159
522	<i>Canna.</i>	<i>Indian Reed or Shot.</i>	585
399	<i>Cannabis.</i>	<i>Hemp.</i>	199
400	<i>Caprifolium.</i>	<i>Honey-suckle. Woodbine.</i>	160
86	<i>Cardamine.</i>	<i>Ladies' Smock.</i>	439
87	<i>Cardiospermum.</i>	<i>Heart-seed.</i>	273
596	<i>Carduus.</i>	<i>Thistle.</i>	507
596	<i>Carex.</i>	<i>Sedge.</i>	34
160	<i>Carpinus.</i>	<i>Hornbeam-tree.</i>	623

<i>Cassia nictitans.</i>	<i>Sensitive Pea.</i>	303
<i>Castanea.</i>	<i>Chesnut-tree.</i>	624
— <i>pumila.</i>	<i>Chinquapin.</i>	625
<i>Catalpa.</i>	<i>Catalpa-tree.</i>	10
<i>Caulophyllum.</i>	<i>Blue Cohosh.</i>	218
<i>Ceanothus.</i>	<i>Red-root. New Jersey</i>	
	<i>Tea.</i>	167
<i>Celastrus.</i>	<i>Staff-tree.</i>	167
<i>Celtis.</i>	<i>Nettle-tree. Hag-berry.</i>	
	<i>Hoop-ash.</i>	200
<i>Cenchrus.</i>	<i>Bur-grass.</i>	60
<i>Centaurea.</i>	<i>Centaury.</i>	576
— <i>Cyanus.</i>	<i>Blue-bottle.</i>	576
— <i>solstitialis.</i>	<i>St. Barnaby's Thistle.</i>	576
<i>Centunculus.</i>	<i>Chaff-weed.</i>	97
<i>Cephalanthus.</i>	<i>Button-wood.</i>	114
<i>Cerastium.</i>	<i>Mouse-ear Chick-weed.</i>	320
<i>Ceratophyllum.</i>	<i>Horn-wort.</i>	370
<i>Cercis.</i>	<i>Judas-tree.</i>	308
<i>Chara.</i>	<i>Feather-beds.</i>	4
<i>Chærophyllum.</i>	<i>Cow-parsley. Wild Cher-</i>	
	<i>vil.</i>	195
<i>Chamærops.</i>	<i>Palmetto-tree. Cabbage-</i>	
	<i>tree.</i>	239
<i>Cheiranthus.</i>	<i>Stock. Wall-flower.</i>	436
<i>Chelidonium.</i>	<i>Celandine.</i>	365
<i>Chenopodium.</i>	<i>Goose-foot.</i>	197
— <i>viride.</i>	<i>Lamb's-quarter.</i>	198
— <i>Anthelminticum.</i>	<i>Worm-seed.</i>	198
<i>Chimaphila.</i>	<i>Winter-green. Sipsisewa.</i>	300
<i>Chiococca.</i>	<i>Snow-berry.</i>	160
<i>Chionanthus.</i>	<i>Fringe-tree. Snow-flock-tree.</i>	
	<i>Snow-flower.</i>	7
<i>Chloris.</i>	<i>Wire-grass. Couch-grass.</i>	87
<i>Chondrilla.</i>	<i>Gum Succory.</i>	497
<i>Chrysanthemum.</i>	<i>Or-eye Daisy.</i>	526
<i>Chrysocoma.</i>	<i>Goldilocks.</i>	517
<i>Chrysosplenium.</i>	<i>Golden Saxifrage.</i>	269
<i>Cichorium.</i>	<i>Succory.</i>	496
<i>Cicuta.</i>	<i>Water Cowbane.</i>	195
<i>Cimicifuga.</i>	<i>Bug-wort.</i>	372
— <i>Serpentaria.</i>	<i>Black Snake-root.</i>	372
<i>Circæa.</i>	<i>Enchanters' Nightshade.</i>	21
<i>Cissus.</i>	<i>Pepper-vine.</i>	170
— <i>hederacea.</i>	<i>Virginia Creeper.</i>	170

Clematis.

Clinopodium.

Cnicus.

Collinsonia.

Comarum.

Comptonia.

Conium.

Convallaria.

Convolvulus.

Conyza.

Coreopsis.

Corispermum.

Cornus.

— *sam.*

Coronopus.

Corydalis.

— *Cu.*

Corylus.

— *rost.*

Cratægus.

Crotalaria.

Cucubalus.

Cunila.

Cupressus.

— *thyc.*

Cuscuta.

Cynoglossum.

Cyperus.

Cypripedium.

Dactylis.

Datura.

Daucus.

Delphinium.

Dentaria.

— *diphy.*

Dianthus.

Dionæa.

Dioscorea.

Diospyros.

303	Clematis.	<i>Virgin's Bower. Traveller's-joy.</i>	384
624			
625	Clinopodium.	<i>Wild Basil.</i>	410
10	Cnicus.	<i>Thistle.</i>	506
218	Collinsonia.	<i>Horse-weed.</i>	20
	Comarum.	<i>Marsh Cinquefoil.</i>	356
167	Comptonia.	<i>Sweet Fern-bush.</i>	638
167	Conium.	<i>Hemlock.</i>	195
	Convallaria.	<i>Lily of the Valley. Sneezewort.</i>	232
200			
60	Convolvulus.	<i>Bind-weed.</i>	143
576	Conyza.	<i>Flea-bane.</i>	523
576	Coreopsis.	<i>Tick-seed Sunflower.</i>	567
576	Corispermum.	<i>Tick-seed.</i>	4
97	Cornus.	<i>Dogwood.</i>	107
114	— sanguinea.	<i>Red Osier.</i>	109
320	Coronopus.	<i>Swine's-Cress.</i>	435
370	Corydalis.	<i>Fumitory.</i>	462
308	— Cucullaria.	<i>Breaches-flower.</i>	462
4	Corylus.	<i>Hazel-nut. Filbert.</i>	634
	— rostrata.	<i>Cuckold's Nut.</i>	635
193	Cratægus.	<i>Hawthorn.</i>	336
	Crotalaria.	<i>Rattle-pea.</i>	469
239	Cucubalus.	<i>Campion.</i>	315
436	Canila.	<i>Dittany.</i>	406
365	Cupressus.	<i>Cypress.</i>	645
197	— thyoides.	<i>White Cedar.</i>	646
198	Cuscuta.	<i>Dodder.</i>	116
198	Cynoglossum.	<i>Hound's-tongue.</i>	133
300	Cyperus.	<i>Nut-grass.</i>	50
160	Cypripedium.	<i>Ladies' Slipper. Mocassin-flower.</i>	594
7			
87	Dactylis.	<i>Cock's-foot-grass. Orchard-grass.</i>	84
497			
526	Datura.	<i>Thorn-apple. Stramonium.</i>	141
517	Daucus.	<i>Carrot.</i>	191
269	Delphinium.	<i>Lark-spur.</i>	371
496	Dentaria.	<i>Tooth-wort.</i>	438
195	— diphylla.	<i>Pepper-root. Indian Mustard.</i>	438
372			
372	Dianthus.	<i>Pink.</i>	314
21	Dionæa.	<i>Venus's Fly-trap.</i>	304
170	Dioscorea.	<i>Yam.</i>	251
170	Diospyros.	<i>Date-plum. Persimon.</i>	265

## LATIN AND ENGLISH INDEX.

Dipsacus.	Teasel. Fullers-thistle.	96
Dirca.	Leather-wood.	268
Dodecatheon.	American Cowslip. Mitre-flower.	136
Draba.	Whitlow-grass.	433
Dracocephalum.	Dragon's-head.	411
Drosera.	Sun-dew.	210
Echium.	Viper's Bugloss.	130
Elæagnus.	Missouri Silver-tree.	114
Elephantopus.	Elephant's-foot.	582
Elymus.	Lyme grass. Wild Rye.	89
Empetrum.	Crake- or Crow-berry.	93
Epigæa.	Ground Ivy.	297
Epilobium.	Willow-herb.	259
Equisetum.	Horse-tail. Shave-grass.	651
Erigeron.	Rag-weed.	532
—— bellidifolium.	Poor Robin's Plantain. Rattlesnake Plantain.	532
Eriocaulon.	Pipe-wort.	91
Eriophorum.	Cotton-grass.	57
Eryngium.	Eryngo.	189
Erysimum.	Hedge Mustard.	436
—— cheiranthoides.	Worm-seed.	436
Erythrina.	Coral-plant.	467
Erythronium.	Dog's-tooth Violet.	230
Eupatorium.	Hemp Agrimony.	512
—— perfoliatum.	Thorough-wort. Bone-set.	516
Euphrasia.	Eye-bright.	430
Evonymus.	Spindle-tree.	168
—— americanus.	Burning-bush.	168
Fagus.	Beech-tree.	624
Festuca.	Fescue-grass.	83
Fragaria.	Strawberry.	357
Fraxinus.	Ash tree.	8
Fumaria.	Fumitory.	463
Galax.	Carpenter's-leaf. Heal-all.	446
Galeopsis.	Dead-nettle.	407
Galium.	Ladies' Bel-straw. Cleavers.	102
Gaultheria.	Goose-grass.	102
	Mountain-tea. Partridge-berry.	283

Gelseminum.  
 Gentiana.  
 Geranium.  
 ——— mac.  
 ——— Rob.  
 Geum.  
 Glaux.  
 Glechoma.  
 Gleditschia.  
 Glycyrrhiza.  
 Gnaphalium.  
 Gordonia.  
 Gratiola.  
 ——— aure.  
 Gymnocladu.

Halesia.

Hamamelis.  
 Hamiltonia.  
 Hedera.  
 Helianthemum.  
 Helianthus.  
 Heliotropium.  
 Helonias dio.  
 Hepatica.  
 Heracleum.  
 Hesperis.  
 Hibiscus escul.  
 Hieracium.  
 Hippophaë.  
 Hippuris.  
 Holcus fragr.  
 Hopea.  
 Hordeum.  
 Hottonia.  
 Hudsonia.  
 Humulus.  
 Hydrastis.  
 Hydrocotyle.  
 Hydrophyllu.  
 Hyoscyamus.  
 Hyoseris.

95	Gelseminum.	Carolina Jasmine.	184
268	Gentiana.	Gentian.	185
	Geranium.	Crane's-bill.	448
136	— maculatum.	Alum-root. Flux-weed.	448
433	— Robertianum.	Herb-Robert.	449
411	Geum.	Avens. Herb Bennet.	351
210	Glaux.	Black Salt-wort.	176
	Glechoma.	Ground Ivy.	408
	Gleditschia.	Honey Locust-tree.	221
130	Glycyrrhiza.	Liquorice.	480
114	Gnaphalium.	Everlasting. Cudweed.	524
582	Gordonia.	Loblolly Bay.	451
89	Gratiola.	Hedge-hyssop.	12
93	— aurea.	Golden-pert.	12
297	Gymnocladus.	Kentucky Coffee-tree. Chicot.	304
259			
631			
532			
le.	Palesia.	Snow-drop-tree. Silver-bell-tree.	449
532	Hamamelis.	Witch-hazel.	116
91	Hamiltonia.	Oil-nut.	178
37	Hedeoma.	Pennyroyal.	414
189	Helianthemum.	Rock-rose.	363
436	Helianthus.	Sun-flower.	570
467	Heliotropium.	Turnsol.	130
230	Helonias dioica.	Star-wort. Colic-wort.	243
512	Hepatica.	Liver-wort.	391
516	Heracleum.	Cow Parsnep.	192
430	Hesperis.	Rocket.	436
168	Hibiscus esculentus.	Okra or Okro.	456
168	Hieracium.	Hawk-weed.	502
	Hippophaë.	Sea Buckthorn.	115
	Hippuris.	Mare's-tail.	3
624	Holcus fragrans.	Seneca-grass.	78
83	Hopea.	Sweet-leaf.	451
357	Hordeum.	Barley.	89
8	Hottonia.	Water-violet. Feather-foil.	138
463	Hudsonia.	Yellow American Heath.	364
446	Humulus.	Hop.	199
407	Hydrastis.	Yellow-root. Turmeric.	389
ers.	Hydrocotyle.	Penny-wort.	190
102	Hydrophyllum.	Water-leaf.	134
	Hyoscyamus.	Henbane.	141
283	Hyoseris.	Swine's Succory.	504

<i>Hypericum.</i>	<i>St. John's-wort.</i>	374
— <i>densiflorum.</i>	<i>American Yellow-heath.</i>	376
<i>Jatropha.</i>	<i>Wild Cassava. Tread-</i>	
	<i>softly.</i>	603
<i>Ilex.</i>	<i>Holly. Dahoon.</i>	117
— <i>vomitaria.</i>	<i>South-sea Tea.</i>	118
<i>Illecebrum.</i>	<i>Knot grass.</i>	445
<i>Illicium.</i>	<i>Aniseed-tree.</i>	380
<i>Impatiens.</i>	<i>Balsam. Touch-me-not.</i>	171
<i>Indigofera.</i>	<i>Indigo-plant.</i>	488
<i>Inula Helenium.</i>	<i>Elecampane.</i>	531
<i>Ipomœa Quamoclit.</i>	<i>Cypress-vine.</i>	145
<i>Iris.</i>	<i>Flag. Flower-de-luce.</i>	29
<i>Juglans.</i>	<i>Walnut. Hickory.</i>	636
— <i>cinerea.</i>	<i>Butter-nut. Oil-nut.</i>	636
— <i>alba.</i>	<i>Shell- or Shag-bark.</i>	637
— <i>olivæformis.</i>	<i>Pecan-nut.</i>	636
— <i>porcina.</i>	<i>Hog- or Pig-nut.</i>	638
<i>Juncus.</i>	<i>Rush.</i>	235
<i>Juniperus.</i>	<i>Juniper.</i>	646
— <i>virginiana.</i>	<i>Red Cedar.</i>	647
<i>Iva.</i>	<i>Bastard Jesuit's bark.</i>	580
<i>Kalmia.</i>	<i>American Laurel.</i>	295
— <i>angustifolia.</i>	<i>Sheep Laurel.</i>	296
— <i>latifolia.</i>	<i>Calico-flower.</i>	296
<i>Lactuca.</i>	<i>Lettuce.</i>	500
<i>Lamium.</i>	<i>Archangel.</i>	406
— <i>amplexicaule.</i>	<i>Henbit.</i>	406
<i>Laurus.</i>	<i>Laurel. Sweet-bay.</i>	275
— <i>Benzoin.</i>	<i>Spice-wood. Benjamin-</i>	
	<i>tree.</i>	276
— <i>caroliniensis.</i>	<i>Red-bay.</i>	276
— <i>Sassafras.</i>	<i>Sassafras-tree.</i>	277
<i>Ledum latifolium.</i>	<i>Labrador Tea.</i>	300
<i>Lemna.</i>	<i>Duck's-meat.</i>	22
<i>Leontodon.</i>	<i>Dandelion.</i>	497
<i>Lepidium.</i>	<i>Pepper-wort.</i>	435
<i>Liatri.</i>	<i>Button Snake-root.</i>	507
— <i>squarrosa.</i>	<i>Rattle-snake's-master.</i>	509
<i>Ligusticum.</i>	<i>Lovage.</i>	193
<i>Ligustrum.</i>	<i>Privet. Prim.</i>	7

*Lilium.*— *caroli**Linum.**Liquidambar.**Liriodendron.**Lithospermum**Lobelia Cardin*— *inflata*— *siphili**Lotus.**Lapinus.**Lycium.**Lycopodium.*— *dendro*— *alopec**Lycopsis.**Lycopus.**Lysimachia.**Magnolia acum*— *auricul*— *glauca.*— *grandif*— *tripetal**Malva.**Marrubium.**Martynia.**Medicago.**Medeola.**Melampyrum.**Melica.**Melilotus.**Menispermum.*— *canaden**Mentha.**Menyanthes.**Miegia.**Milium.**Mimulus.**Mitchella.*

374	<i>Lilium.</i>	<i>Lily.</i>	228
376	— <i>carolinianum.</i>	<i>American Martagon.</i>	229
	<i>Linum.</i>	<i>Flax.</i>	210
	<i>Liquidambar.</i>	<i>Sweet-gum.</i>	635
	<i>Liriodendron.</i>	<i>Tulip-tree. American</i>	
603		<i>Poplar.</i>	382
117	<i>Lithospermum.</i>	<i>Gromwell.</i>	131
118	<i>Lobelia Cardinalis.</i>	<i>Cardinal's flower.</i>	448
445	— <i>inflata.</i>	<i>Eye-bright.</i>	448
380	— <i>siphilitica.</i>	<i>American Mercury.</i>	447
171	<i>Lotus.</i>	<i>Bird's foot Trefoil</i>	489
488	<i>Lupinus.</i>	<i>Lupine.</i>	467
531	<i>Lycium.</i>	<i>Box-thorn.</i>	97
145	<i>Lycopodium.</i>	<i>Club-moss.</i>	652
29	— <i>dendroideum.</i>	<i>Ground Pine.</i>	653
636	— <i>aloppecuroideum.</i>	<i>Walking-fern.</i>	654
636	<i>Lycopsis.</i>	<i>Wild-Bugloss.</i>	132
637	<i>Lycopus.</i>	<i>Water Horehound.</i>	16
636	<i>Lysimachia.</i>	<i>Loose-strife.</i>	135
638			
235			
646	<i>Magnolia acuminata.</i>	<i>Cucumber-tree.</i>	381
647	— <i>auriculata.</i>	<i>Indian Physic.</i>	382
580	— <i>glauca.</i>	<i>Swamp Sassafras. Sweet</i>	
		<i>Bay. Swamp Laurel.</i>	
		<i>Beaver-wood.</i>	381
295	— <i>grandiflora.</i>	<i>Big Laurel.</i>	380
296	— <i>tripetala.</i>	<i>Umbrella-tree. Elk-wood.</i>	381
296	<i>Malva.</i>	<i>Mallow.</i>	454
	<i>Marrubium.</i>	<i>Horehound.</i>	408
500	<i>Martynia.</i>	<i>Cuckold's Horns.</i>	428
406	<i>Medicago.</i>	<i>Medick. Nonsuch.</i>	490
406	<i>Medeola.</i>	<i>Indian Cucumber.</i>	244
275	<i>Melampyrum.</i>	<i>Cow-wheat.</i>	430
	<i>Melica.</i>	<i>Melic-grass.</i>	77
276	<i>Melilotus.</i>	<i>Melilot.</i>	477
276	<i>Menispermum.</i>	<i>Moon-seed.</i>	370
277	— <i>canadense.</i>	<i>Sarsaparilla.</i>	370
300	<i>Mentha.</i>	<i>Mint.</i>	405
22	<i>Menyanthes.</i>	<i>Buck-bean. Marsh Tre-</i>	
497		<i>foil.</i>	139
435		<i>Cones.</i>	59
507	<i>Miegia.</i>	<i>Millet-grass.</i>	62
507	<i>Milium.</i>	<i>Monkey-flower.</i>	426
509	<i>Mimulus.</i>	<i>Eye-bright.</i>	101
193	<i>Mitchella.</i>		
7			

<i>Momordica.</i>	<i>Balsam-apple.</i>	444
<i>Monarda.</i>	<i>Mountain-mint.</i>	16
—— <i>Kalmiana.</i>	<i>Oswego Tea.</i>	17
—— <i>punctata.</i>	<i>Gravel-wort.</i>	18
<i>Monotropa.</i>	<i>Yellow Bird's-nest.</i>	303
<i>Morus.</i>	<i>Mulberry.</i>	639
<i>Myosotis.</i>	<i>Scorpion-grass.</i>	133
<i>Myrica.</i>	<i>Candleberry Myrtle. Wax-Myrtle.</i>	620
—— <i>Gale.</i>	<i>Sweet-gale.</i>	620
<i>Myriophyllum.</i>	<i>Water-milfoil.</i>	274
<i>Neottia.</i>	<i>Ladies' Traces.</i>	589
<i>Nepeta.</i>	<i>Cat-nep. Cat-mint.</i>	406
<i>Nicotiana.</i>	<i>Tobacco.</i>	141
<i>Nuphar.</i>	<i>Water Lily.</i>	368 369
<i>Nymphæa.</i> }	<i>Tupelo-tree.</i>	177
<i>Nyssa.</i>	<i>Ogochee Lime.</i>	177
—— <i>candicans.</i>	<i>Sour Gum-tree.</i>	177
—— <i>villosa.</i>		
<i>Oenanthæ.</i>	<i>Water drop-wort.</i>	194
<i>Oenothera.</i>	<i>Tree Primrose.</i>	261
—— <i>fruticosa.</i>	<i>Sun-drop.</i>	262
<i>Olea.</i>	<i>Olive-tree. Devil's-wood.</i>	7
<i>Onoclea.</i>	<i>Sensitive-fern.</i>	665
<i>Ophioglossum.</i>	<i>Adder's-tongue.</i>	655
<i>Origanum.</i>	<i>Marjoram.</i>	411
<i>Ornus.</i>	<i>Flowering-Ash.</i>	8
<i>Orobanche.</i>	<i>Broom-rape.</i>	431
—— <i>virginiana.</i>	<i>Cancer-root.</i>	431
<i>Oryzopsis.</i>	<i>Mountain-rice.</i>	60
<i>Osmunda.</i>	<i>Flowering-fern.</i>	657
<i>Ostrya.</i>	<i>Virginian Hornbeam. Iron-wood. Lever-wood.</i>	623
<i>Oxalis.</i>	<i>Woodsorrel.</i>	322
<i>Oxycoccus.</i>	<i>Craneberry.</i>	263
<i>Panax.</i>	<i>Ginseng.</i>	191
<i>Panicum.</i>	<i>Panic-grass.</i>	66
<i>Papaver.</i>	<i>Poppy.</i>	365
<i>Parietaria.</i>	<i>Pellitory.</i>	114
<i>Parnassia.</i>	<i>Grass of Parnassus.</i>	208

*Pasiflora.*  
*Pastinaca.*  
*Pedicularis.*  
*Peplis.*  
*Phalaris.*  
*Phaseolus.*  
*Phellandrium.*  
*Philadelphus.*  
*Phl. am.*

—— *prat.*  
*Physalis.*  
*Phytolacca.*  
*Pinguicula.*  
*Pinus.*

*Pisum.*  
*Plantago.*  
 —— *lance.*  
*Platanus.*

*Poa.*  
*Podophyllum.*  
*Polemonium.*

*Polygala.*  
 —— *sened.*  
*Polygonatum.*  
*Polygonum.*

—— *avicu.*  
 —— *bisto.*  
 —— *Conv.*  
 —— *Fago.*  
 —— *L. ydr.*

*Populus.*  
 —— *balsam.*  
 —— *trepic.*

*Porcelia.*  
*Portulacca.*  
*Potamogeton.*  
*Potentilla.*

—— *Anse.*  
*Pothos fœtida.*

*Prenanthes.*  
 —— *Serpe.*

444	<i>Passiflora.</i>	<i>Passion flower.</i>	444
16	<i>Pastinaca.</i>	<i>Parsnep.</i>	196
17	<i>Pedicularis.</i>	<i>Louse-wort.</i>	424
18	<i>Peplis.</i>	<i>Water Purslane.</i>	238
303	<i>Phalaris.</i>	<i>Canary-grass.</i>	65
639	<i>Phaseolus.</i>	<i>Kidney-bean.</i>	469
133	<i>Phellandrium.</i>	<i>Water Hemlock.</i>	195
	<i>Philadelphus.</i>	<i>Mock-Orange.</i>	329
	<i>Phlox.</i>	<i>Cat's-tail-grass.</i>	65
620	— <i>pratense.</i>	<i>Timothy-grass.</i>	65
620	<i>Physalis.</i>	<i>Ground Cherries.</i>	157
274	<i>Phytolacca.</i>	<i>Poke-root.</i>	324
	<i>Pinguicula.</i>	<i>Butter-wort.</i>	14
589	<i>Pinus.</i>	<i>Pine. Fir-tree. Hemlock.</i>	
406		<i>Spruce. Larch-trees.</i>	639
141	<i>Pisum.</i>	<i>Pea.</i>	470
368 369	<i>Plantago.</i>	<i>Plantain.</i>	98
	— <i>lanceolata.</i>	<i>Rib-wort.</i>	98
177	<i>Platanus.</i>	<i>Plane-tree. Sycamore.</i>	
177		<i>Button-wood.</i>	635
177	<i>Poa.</i>	<i>Meadow-grass.</i>	78
	<i>Podophyllum.</i>	<i>Duck's-foot. May-apple.</i>	366
	<i>Polemonium.</i>	<i>Greek Valerian. Jacob's</i>	
194		<i>Ladder.</i>	151
261	<i>Polygala.</i>	<i>Milk-wort.</i>	464
262	— <i>seneca.</i>	<i>Seneca Snake-root.</i>	464
7	<i>Polygonatum.</i>	<i>Solomon's Seal.</i>	234
665	<i>Polygonum.</i>	<i>Persicaria.</i>	269
655	— <i>aviculare.</i>	<i>Knot-grass.</i>	269
411	— <i>bistortoides.</i>	<i>Snake-weed.</i>	271
8	— <i>Convolvulus.</i>	<i>Black Bind-weed.</i>	273
431	— <i>Fagopyrum.</i>	<i>Buck-wheat.</i>	273
431	— <i>Hydropiper.</i>	<i>Water Pepper.</i>	270
60	<i>Populus.</i>	<i>Poplar.</i>	618
657	— <i>balsamifera.</i>	<i>Tacamahac.</i>	618
	— <i>trepida.</i>	<i>Asp or Aspen-tree.</i>	618
Iron- 623	<i>Porcelia.</i>	<i>Papaw-tree.</i>	383
322	<i>Portulacca.</i>	<i>Purslane.</i>	365
263	<i>Potamogeton.</i>	<i>Pond-weed.</i>	120
	<i>Potentilla.</i>	<i>Cinquefoil.</i>	353
	— <i>Anserina.</i>	<i>Wild Tansey.</i>	356
191	<i>Pothos foetida.</i>	<i>Scunk-weed. Scunk-cab-</i>	
66		<i>bage.</i>	398
365	<i>Prenanthes.</i>	<i>Milk-weed.</i>	498
114	— <i>Serpentaria.</i>	<i>Lion's-foot.</i>	499
208			

<i>Prinos.</i>	<i>Winter-berry.</i>	220
— <i>ambiguus.</i>	<i>Black Alder.</i>	220
— <i>glaber.</i>	<i>Ink-berry.</i>	220
<i>Prunella.</i>	<i>Self-heal.</i>	411
<i>Prunus.</i>	<i>Plum-tree. Cherry-tree.</i>	329
<i>Pteris.</i>	<i>Brahe.</i>	668
<i>Pulmonaria.</i>	<i>Lung-wort.</i>	130
<i>Pycnanthemum.</i>	<i>Horse- or Mountain-mint.</i>	409
<i>Pyrola.</i>	<i>Winter-green.</i>	299
<i>Pyrus.</i>	<i>Apple-tree.</i>	339
— <i>Botryapium.</i>	<i>May-bush.</i>	339
<i>Quercus.</i>	<i>Oak-tree.</i>	625
<i>Ranunculus.</i>	<i>Crow-foot.</i>	391
<i>Rhamnus.</i>	<i>Buck-thorn.</i>	166
<i>Rhinanthus.</i>	<i>Yellow-rattle.</i>	429
<i>Rhododendron.</i>	<i>Rose Bay. Mountain Laurel.</i>	297
<i>Rhus.</i>	<i>Sumach.</i>	204
— <i>Toxicodendron.</i>	<i>Poison Oak.</i>	205
<i>Ribes.</i>	<i>Currant-tree. Gooseberry.</i>	153
<i>Ricinus.</i>	<i>Palma-Christi. Castor-oil tree.</i>	602
<i>Robinia.</i>	<i>False Acacia. Locust-tree.</i>	487
<i>Rosa.</i>	<i>Rose-Hep-tree.</i>	344
<i>Rottboellia.</i>	<i>Hard-grass.</i>	88
<i>Rubia.</i>	<i>Madder.</i>	102
<i>Rubus.</i>	<i>Bramble. Raspberry.</i>	346
— <i>trivialis.</i>	<i>Dewberry.</i>	347
— <i>Chamæmorus.</i>	<i>Cloud-berry.</i>	349
— <i>villosus.</i>	<i>Black-berry.</i>	346
<i>Rumex.</i>	<i>Dock. Sorrel.</i>	247
<i>Ruppia.</i>	<i>Tassel Pond-weed.</i>	121
<i>Sabbatia.</i>	<i>Centaury.</i>	137
<i>Saccharum.</i>	<i>Wild Sugar-cane.</i>	73
<i>Sagina.</i>	<i>Pearl-wort.</i>	119
<i>Sagittaria.</i>	<i>Arrow-head. Arrow-root.</i>	395
<i>Salicornia.</i>	<i>Salt- or Glass-wort. Samphire.</i>	2
<i>Salix.</i>	<i>Willow. Osier.</i>	608
<i>Salsola.</i>	<i>Salt-wort.</i>	197
<i>Salvia.</i>	<i>Sage.</i>	19

*Sambucus.*  
*Samolus.*  
  
*Sanguinar.*  
*Sanguisor.*  
*Santolina.*  
*Sapindus.*  
*Saponaria.*  
*Sarracenia.*  
*Saururus.*  
*Saxifraga.*  
— *ni.*  
*Schoenus.*  
*Schrankia.*  
*Scirpus.*  
*Scleranthu.*  
*Scolopend.*  
*Scorzonera.*  
*Scutellaria.*  
*Secale.*  
*Sedum.*  
*Selinum.*  
*Senecio.*  
— *hi.*  
*Seseli.*  
*Silene.*  
*Sison.*  
*Sisymbrium.*  
— *am.*  
— *So.*  
*Sisyrinchiu.*  
*Sium.*  
*Smilax.*  
*Smyrnum.*  
*Solanum.*  
— *Du.*  
*Solidago.*  
*Sorbus.*  
  
*Sorghum.*  
*Sparganium.*  
*Spergula.*  
*Spermacoce.*  
*Spigelia.*

220	<i>Sambucus.</i>	<i>Elder.</i>	203
220	<i>Samolus.</i>	<i>Brook-weed. Water Pimpernel.</i>	158
220	<i>Sanguinaria.</i>	<i>Blood-wort. Puccoon.</i>	366
411	<i>Sanguisorba.</i>	<i>Great Burnet.</i>	116
329	<i>Santolina.</i>	<i>Lavender Cotton.</i>	520
668	<i>Sapindus.</i>	<i>Soap-berry.</i>	274
130	<i>Saponaria.</i>	<i>Soap-wort.</i>	314
409	<i>Sarracenia.</i>	<i>Side-saddle flower.</i>	367
299	<i>Saururus.</i>	<i>Lizard's-tail.</i>	252
339	<i>Saxifraga.</i>	<i>Saxifrage.</i>	310
339	— <i>nivalis.</i>	<i>Seng Greene.</i>	310
	<i>Schoenus.</i>	<i>Bog Rush.</i>	47
625	<i>Schrankia.</i>	<i>Sensitive Briar.</i>	305
	<i>Scirpus.</i>	<i>Club Rush.</i>	54
	<i>Scleranthus.</i>	<i>Knawel.</i>	315
391	<i>Scolopendrium.</i>	<i>Hart's-tongue.</i>	667
166	<i>Scorzonera.</i>	<i>Viper's-grass.</i>	497
429	<i>Scutellaria.</i>	<i>Scull-cap.</i>	412
	<i>Secale.</i>	<i>Rye.</i>	90
207	<i>Sedum.</i>	<i>Stone crop. Orpine.</i>	323
204	<i>Selinum.</i>	<i>Milk Parsley.</i>	192
205	<i>Senecio.</i>	<i>Groundsel. Rag-wort.</i>	528
153	— <i>hieracifolius.</i>	<i>Butter-weed. Fire-weed.</i>	529
	<i>Seseli.</i>	<i>Meadow Saxifrage.</i>	197
602	<i>Silene.</i>	<i>Catch-fly. Wild Pink.</i>	315
487	<i>Sison.</i>	<i>Hone wort.</i>	194
344	<i>Sisymbrium.</i>	<i>Water-cress.</i>	440
88	— <i>amphibium.</i>	<i>Water-radish.</i>	440
102	— <i>Sophia.</i>	<i>Flix-weed.</i>	440
346	<i>Sisyrinchium.</i>	<i>Blue-eyed Grass.</i>	31
347	<i>Sium.</i>	<i>Water Parsnep.</i>	194
349	<i>Smilax.</i>	<i>Green Briar. Poison Briar.</i>	249
346	<i>Smyrnum.</i>	<i>Alexanders.</i>	196
247	<i>Solanum.</i>	<i>Nightshade.</i>	156
121	— <i>Dulcamara.</i>	<i>Bittersweet.</i>	156
137	<i>Solidago.</i>	<i>Golden-rod.</i>	535
73	<i>Sorbus.</i>	<i>Service-tree. Mountain-Ash.</i>	341
119		<i>Indian Millet. Broom grass.</i>	78
395	<i>Sorghum.</i>	<i>Bur-reed.</i>	33
	<i>Sparganium.</i>	<i>Spurrey.</i>	320
2	<i>Spergula.</i>	<i>Button-weed.</i>	105
608	<i>Spermacoce.</i>	<i>Worm-grass. Indian Pink-root.</i>	139
197	<i>Spigelia.</i>		
19			

<i>Spiræa.</i>	<i>Meadow-sweet.</i>	341
—— <i>opulifolia.</i>	<i>Virginian Guelder-rose.</i>	342
—— <i>trifoliata.</i>	<i>Indian Physic. Ipecacuanha.</i>	343
<i>Stachys.</i>	<i>Hedge Nettle.</i>	407
<i>Staphylea.</i>	<i>Bladder-nut.</i>	206
<i>Statice.</i>	<i>Thrift. Sea Lavender.</i>	212
<i>Stellaria.</i>	<i>Stitch-wort.</i>	317
—— <i>media.</i>	<i>Chick-weed.</i>	317
<i>Stillingia sebifera.</i>	<i>Tallow-tree.</i>	608
<i>Stipa.</i>	<i>Feather-grass.</i>	72
<i>Swertia.</i>	<i>Marsh Felwort.</i>	100
<i>Symphoria.</i>	<i>St. Peter's-wort.</i>	102
<i>Tanacetum.</i>	<i>Tansy.</i>	523
<i>Taxus.</i>	<i>Yew-tree.</i>	647
<i>Tephrosia.</i>	<i>Goat's Rue.</i>	489
<i>Teucrium.</i>	<i>Germander.</i>	405
<i>Thalictrum.</i>	<i>Meadow Rue.</i>	388
<i>Thesium.</i>	<i>Bastard Toad-flux.</i>	177
<i>Thlaspi.</i>	<i>Bastard cress. Penny-cress.</i>	435
	<i>Shepherd's-purse.</i>	646
<i>Thuya.</i>	<i>American Arbor-vitæ.</i>	413
<i>Thymus.</i>	<i>Thyme.</i>	362
<i>Tilia.</i>	<i>Lime tree. Linden-tree.</i>	218
	<i>Bass wood. White-wood.</i>	254
	<i>Spoon-wood.</i>	477
<i>Tradescantia.</i>	<i>Spider wort.</i>	247
<i>Trientalis.</i>	<i>Winter green.</i>	162
<i>Trifolium.</i>	<i>Trefoil. Clover.</i>	90
<i>Triglochin.</i>	<i>Arrow-grass.</i>	391
<i>Triosteum.</i>	<i>Fever-wort. Gentian.</i>	438
<i>Triticum.</i>	<i>Wheat.</i>	531
<i>Trollius.</i>	<i>Globe-flower.</i>	34
<i>Turritis.</i>	<i>Tower-mustard.</i>	199
<i>Tussilago.</i>	<i>Colts'-foot.</i>	82
<i>Typha.</i>	<i>Colt &amp; Reed Mace.</i>	112
<i>Ulmus.</i>	<i>Elm.</i>	284
<i>Uniola.</i>	<i>Sea-side Oat.</i>	285
<i>Urtica.</i>	<i>Nettle.</i>	284
<i>Vaccinium.</i>	<i>Whortle-berry. Huckle-berry.</i>	289
—— <i>frondosum.</i>	<i>Blue Tangles.</i>	
—— <i>stamineum.</i>	<i>Deer-berry.</i>	
—— <i>Vitis Idæa.</i>	<i>Bilberry.</i>	

*Valeriana.*  
*Veratrum.*  
*Verbascum.*  
*Verbena.*  
*Veronica.*

—— *se*  
 —— *Be*  
*Viburnum*  
 —— *lan*

—— *læ*  
 —— *O*

—— *pr*

*Vicia.*  
*Viola.*  
*Viscum.*  
*Vitis.*

*Xanthium.*

*Yucca.*

*Zannichellia.*  
*Zanthorhiza.*  
*Zanthoxylum.*  
*Zea.*  
*Zizania.*  
*Zizyphus.*  
*Zostera.*

LATIN AND ENGLISH INDEX.

695

341	Valeriana.	Valerian.	28
342	Veratrum.	Green Hellebore.	242
ha. 343	Verbascum.	Mullein. High-taper.	142
407	Verbena.	Vervain. Iron-weed.	415
206	Veronica.	Speedwell.	10
212	— serpyllifolia.	Paul's Betony.	11
317	— Beccabunga.	Brook-lime.	11
317	Viburnum dentatum.	Arrow-wood.	202
608	— lantanoides.	Hobble-bush. Wayfaring-tree.	302
72	— lævigatum.	Cassiberry-bush.	203
100	— Oxycoccus.	Craneberry-tree. American Guelder-rose.	203
162	— prunifolium.	Sheep-berry.	202
523	Vicia.	Vetch.	471
647	Viola.	Violet. Heart's-ease.	171
480	Viscum.	Mistletoe.	114
405	Vitis.	Grape-vine.	169
388	Xanthium.	Small Burdock.	581
177	Yucca.	Adam's Needle. Cabbage-tree.	227
435	Zannichellia.	Horned Pond-weed.	4
646	Zanthorhiza.	Yellow-root.	212
413	Zanthoxylum.	Tooth-ach Tree.	209
pod. 362	Zea.	Maize. Indian Corn.	46
218	Zizania.	Canada or Indian Rice.	60
254	Zizyphus.	Supple-Jack.	188
477	Zostera.	Grass-wreck.	22
247			
162			
90			
391			
438			
531			
34			
199			
82			
112			
284			
285			
384			
389			

# ENGLISH AND LATIN

## INDEX.

<b>A</b> <b>CACIA.</b> False-	<i>Robinia.</i>	487
Adam's Needle.	<i>Yucca.</i>	227
Adder's Tongue.	<i>Ophinglossum.</i>	655
Agrimony.	<i>Agrimonia.</i>	335
——. Hemp-	<i>Eupatorium.</i>	511
Alder.	<i>Alnus.</i>	662
——. Black-	<i>Prinos.</i>	220
Alexanders.	<i>Smyrnium.</i>	196
Allspice. Carolina-	<i>Calycanthus.</i>	337
Aloe. Sweet Virginian-	<i>Agave.</i>	226
Alum-root.	<i>Geranium maculatum.</i>	448
Angelica-tree.	<i>Aralia spinosa.</i>	209
Aniseed-tree.	<i>Illicium.</i>	380
Apple-tree.	<i>Pyrus.</i>	339
Arbor-vitam.	<i>Thuya.</i>	646
Archangel.	<i>Lamium.</i>	406
Arrow-grass.	<i>Triglochin.</i>	247
—— head.	} <i>Sagittaria.</i>	395
—— root.		
—— wood.	<i>Viburnum dentatum.</i>	201
Asarabacca.	<i>Asarum.</i>	596
Ash. Flowering-	} <i>Acer Negundo.</i>	265
——. Mountain-		
Ash-tree.	<i>Ornus.</i>	8
Asp. Aspen.	<i>Sorbus.</i>	341
Avens.	<i>Frazinus.</i>	8
	<i>Populus trepida.</i>	618
	<i>Geum.</i>	351
Balm of Gilead.	<i>Pinus Balsamea.</i>	639
Balsam.	<i>Impatiens.</i>	171
—— Apple.	<i>Momordica.</i>	444

Baneberry.  
 Barley.  
 Bass-wood.  
 Bay-tree.  
 Bear-bind.  
 Bearberry.  
 Beaver-wo.  
 Beech-tree.  
 —. Wat.  
 Bell-flower.  
 Benjamin-t.  
 Bent-grass.  
 Berberry.  
 Bilberry.  
 Bind-weed.  
 —. B.  
 Birch-tree.  
 Bird's-nest.  
 Birth-wort.  
 Bishop's-we.  
 Bistort.  
 Bitter-sweet.  
 Blackberry.  
 Bladder-nut.  
 Blite.  
 —. Straw.  
 Blood-wort.  
 Bluebottle.  
 Blue-eyed G.  
 Bluetangles.  
 Bog-rush.  
 Boneset.  
 Box Elder.  
 Box Thorn.  
 Brake.  
 Bramble.  
 Breeches-flow.  
 Briar. Green-  
 —. Poison.  
 —. Sensiti.  
 —. Sweet-  
 —. Wild-  
 Brook-lime.  
 — weed.  
 Brome-grass.

487	Baneberry.	<i>Actæa.</i>	366
227	Barley.	<i>Hordeum.</i>	89
655	Bass-wood.	<i>Tilia.</i>	362
335	Bay-tree.	<i>Laurus.</i>	275
511	Bear-bind.	<i>Calystegia Sepium.</i>	142
662	Bearberry.	<i>Arbutus Uva ursi.</i>	283
220	Beaver-wood.	<i>Magnolia glauca.</i>	391
196	Beech-tree.	<i>Fagus.</i>	624
357	——. Water-	<i>Platanus.</i>	634
226	Bell-flower.	<i>Campanula.</i>	159
448	Benjamin-tree.	<i>Laurus Benzoin.</i>	276
209	Bent-grass.	<i>Agrostis.</i>	63
380	Berberry.	<i>Berberis.</i>	219
339	Bilberry.	<i>Vaccinium Vitis Idæa.</i>	289
646	Bind-weed.	<i>Convolvulus.</i>	143
406	——. Black-	<i>Polygonum Convolvulus.</i>	273
247	Birch-tree.	<i>Betula.</i>	620
395	Bird's-nest. Yellow-	<i>Monotropa.</i>	303
201	Birth-wort.	<i>Aristolochia.</i>	596
596	Bishop's-weed.	<i>Ammi.</i>	192
265	Bistort.	<i>Polygonum Bistorta.</i>	369
8	Bitter-sweet.	<i>Solanum Dulcamara.</i>	156
341	Blackberry.	<i>Rubus villosus.</i>	346
8	Bladder-nut.	<i>Staphylea.</i>	206
351	Blite.	<i>Amaranthus Blitum.</i>	207
639	——. Strawberry-	<i>Blitum.</i>	4
171	Blood-wort.	<i>Sanguinaria.</i>	366
444	Bluebottle.	<i>Centaurea Cyanus.</i>	576
	Blue-eyed Grass.	<i>Sisyrinchium.</i>	31
	Bluetangles.	<i>Vaccinium frondosum.</i>	285
	Bog-rush.	<i>Schænus</i>	47
	Boneset.	<i>Eupatorium perfoliatum.</i>	516
	Box Elder.	<i>Acer Negundo.</i>	268
	Box Thorn.	<i>Lycium.</i>	97
	Brake.	<i>Pteris.</i>	668
	Bramble.	<i>Rubus.</i>	346
	Breeches-flower.	<i>Corydalis.</i>	462
	Briar. Green-	} <i>Smilax.</i>	249
	——. Poison-		
	——. Sensitive-	<i>Schrankia.</i>	305
	——. Sweet-	} <i>Rosa.</i>	344
	——. Wild-		
	Brook-lime.	<i>Veronica Beccabunga.</i>	10
	——-weed.	<i>Samolus.</i>	158
	Brome-grass.	{ <i>Bromus.</i>	85
		{ <i>Sorghum.</i>	78

Broom-rape.	<i>Orobanche.</i>	431
Buck-bean.	<i>Menyanthes.</i>	139
Buck's eye-tree.	<i>Æsculus.</i>	254
— thorn.	<i>Rhamnus.</i>	166
— . Sea-	<i>Hippophaë.</i>	115
— Wheat.	<i>Polygonum Fagopyrum.</i>	273
Bugle.	<i>Ajuga.</i>	404
Bugloss. Wild-	<i>Lycopsis.</i>	133
Bug-wort.	<i>Cimicifuga.</i>	372
Bull-rush.	<i>Scirpus lacustris.</i>	54
Bardock.	<i>Arctium.</i>	505
— . Small-	<i>Xanthium.</i>	581
Bur-grass.	<i>Cenchrus.</i>	60
— reed.	<i>Sparganium.</i>	33
Burnet. Great-	<i>Sanguisorba.</i>	116
Burning-bush.	<i>Evonymus americanus.</i>	168
Butterfly-flower.	<i>Asclepias tuberosa.</i>	183
Butter-nut.	<i>Juglans cinerea.</i>	636
— weed.	<i>Senecio hieracifolius.</i>	529
— wort.	<i>Pinguicula.</i>	14
Button-weed.	<i>Spermacoce.</i>	105
— wood.	<i>Platanus.</i>	635
	<i>Cephalanthus.</i>	114
Cabbage.	<i>Brassica.</i>	438
— tree.	<i>Chamærops. Yucca.</i>	239
Calico-tree.	<i>Kalmia latifolia.</i>	296
Calf's-snout.	<i>Antirrhinum Orontium.</i>	422
Campion.	<i>Cucubalus.</i>	315
Canary-grass.	<i>Phalaris.</i>	65
Cancer-root.	<i>Orobanche virginica.</i>	431
Candleberry Myrtle.	<i>Myrica.</i>	620
Cane.	<i>Miegia.</i>	59
Cardinal's-flower.	<i>Lobelia Cardinalis.</i>	448
Carpenter's-leaf.	<i>Galax.</i>	446
Carrot.	<i>Daucus.</i>	191
Cassava. Wild-	<i>Jatropha.</i>	603
Cassioberry-bush.	<i>Viburnum lævigatum.</i>	201
Castor-oil tree.	<i>Ricinus.</i>	602
Catalpa-tree.	<i>Catalpa.</i>	10
Catchfly.	<i>Silene.</i>	315
— bush.	<i>Bejaria.</i>	362
Catmint.	<i>Nepeta.</i>	406
Cat's-tail.	<i>Typha.</i>	34
— Grass.	<i>Phleum.</i>	65
Cedar. Red-	<i>Juniperus virginiana.</i>	646

Cedar. W.  
 Celandine.  
 Centaury.  
 Chaff-weed.  
 Chamomile.  
 Cherry-tree.  
 Chervil.  
 Chesnut-t.  
 — .  
 Chickweed.  
 Chicot.  
 Chinquapi.  
 Cinquefoil.  
 — .  
 Cleavers.  
 Clot-bur.  
 Cloud-berry.  
 Clover.  
 Club-moss.  
 Club-rush.  
 Cockle. C.  
 Cock's-foot.  
 Coffee tree.  
 Cohosh. P.  
 — . R.  
 Colt's-foot.  
 Columbine.  
 Coral-plant.  
 Cotton-grass.  
 — tree.  
 Couch-grass.  
 Cowbane.  
 Cowslip. A.  
 Craneberry.  
 Craneberry.  
 — t.  
 Crane's-bill.  
 Creeper. V.  
 Cress. Basta.  
 —. Swin.  
 —. Wat.  
 —. Wat.  
 Crow-berry.

431	Cedar, White-	<i>Cupressus thyoides.</i>	646
139	Celandine.	<i>Chelidonium.</i>	363
254	Centaury.	{ <i>Centaurea.</i>	576
166		<i>Sabbatia.</i>	137
115	Chaff-weed.	<i>Centunculus.</i>	97
273	Chamomile.	<i>Anthemis.</i>	502
404	Cherry-tree.	<i>Prunus.</i>	329
133	Chervil.	<i>Chaerophyllum.</i>	195
372	Chesnut-tree.	<i>Castanea.</i>	624
54	——, Horse-	<i>Æsculus.</i>	254
505	Chickweed.	<i>Stellaria media.</i>	617
581	Chicot.	<i>Gymnocladus.</i>	304
60	Chinquapin.	<i>Castanea pumila.</i>	625
33	Cinquefoil.	<i>Potentilla.</i>	533
116	——, Marsh-	<i>Comarum.</i>	356
168	Cleavers.	<i>Galium.</i>	102
183	Clot-bur.	<i>Arctium.</i>	505
636	Cloud-berry.	<i>Rubus Chamæmorus.</i>	345
529	Clover.	<i>Trifolium.</i>	477
14	Club-moss.	<i>Lycopodium.</i>	652
105	Club-rush.	<i>Scirpus.</i>	54
635	Cockle, Corn-	<i>Agrostemma.</i>	321
114	Cock's-foot Grass.	<i>Dactylis.</i>	84
438	Coffee tree, Kentucky-	<i>Gymnocladus.</i>	304
239	Cohosh, Blue-	<i>Caulophyllum.</i>	218
296	——, Red and White-	<i>Actæa.</i>	366
422	Colt's-foot.	{ <i>Tussilago.</i>	531
315		<i>Asarum.</i>	596
65	Columbine.	<i>Aquilegia.</i>	372
431	Coral-plant.	<i>Erythrina.</i>	467
620	Cotton-grass.	<i>Eriophorum.</i>	57
59	—— tree.	{ <i>Platanus.</i>	635
448		<i>Populus.</i>	613
446	Couch-grass.	<i>Chloris.</i>	87
191	Cowbane, Water-	<i>Cicuta.</i>	197
603	Cowslip, American-	<i>Dodecatheon.</i>	136
201	Crakeberry.	<i>Empetrum.</i>	94
602	Craneberry.	<i>Oxycoccus.</i>	263
10	—— tree.	<i>Viburnum Oxycoccus.</i>	203
315	Crane's-bill.	<i>Geranium.</i>	448
362	Creeper, Virginian-	<i>Cissus hederacea.</i>	170
406	Cress, Bastard-	<i>Thlaspi.</i>	435
34	——, Swine-	<i>Coronopus.</i>	435
65	——, Wall-	<i>Arabis.</i>	436
646	——, Water-	<i>Sisymbrium.</i>	440
	Crow-berry.	<i>Empetrum.</i>	23

Crow-foot,	<i>Ranunculus.</i>	391
Cuckold's-nut,	<i>Corylus rostrata.</i>	635
—— horn,	<i>Martynia.</i>	428
Cucumber-tree,	<i>Magnolia acuminata.</i>	381
Cudweed,	<i>Gnaphalium.</i>	524
Current-tree,	<i>Ribes.</i>	163
Cypress,	<i>Cupressus.</i>	645
—— Vine,	<i>Ipomœa Quamoclit.</i>	145
Dahoon,	<i>Ilex.</i>	117
Daisy,	<i>Bellis.</i>	526
——. Ox-eye-	{ <i>Chrysanthemum Leucanth.</i>	526
Dandelion,	{ <i>Buphthalmum.</i>	563
Date-plum,	<i>Leontodon.</i>	497
Deerberry,	<i>Diospyros.</i>	265
Devil's-bit,	<i>Vaccinium stamineum.</i>	284
—— wood,	<i>Aletris.</i>	225
Dewberry,	<i>Olea.</i>	7
Dittany,	<i>Rubus trivialis.</i>	347
Dock,	<i>Cunila.</i>	406
Dodder,	<i>Rumex.</i>	247
Dog's-bane,	<i>Cuscuta.</i>	116
Dog's-foot Violet,	<i>Apocynum.</i>	179
Dog wood,	<i>Erythronium.</i>	239
Dragon's head,	<i>Cornus.</i>	107
Drop-wort, Water-	<i>Dracocephalum.</i>	411
Duck's-foot,	<i>Oenanthe.</i>	194
—— mead,	<i>Podophyllum.</i>	366
Elder,	<i>Lemna.</i>	22
Elecampane,	<i>Sambucus.</i>	203
Elephant's-foot,	<i>Inula Helenium.</i>	531
Elk-wood,	<i>Elephantopus.</i>	582
Elm-tree,	<i>Magnolia tripetala.</i>	381
——. Witch-	<i>Ulmus.</i>	199
Eringo,	<i>Planera.</i>	115
Everlasting,	<i>Eryngium.</i>	189
Eye-bright,	<i>Gnaphalium.</i>	524
Featherfoil,	{ <i>Euphrasia.</i>	430
—— beds,	{ <i>Mitchella.</i>	101
—— grass,	{ <i>Lobelia inflata.</i>	448
Felwort, Marsh-	<i>Hottonia.</i>	138
Fennel, Dog's-	<i>Chara.</i>	4
	<i>Stipa.</i>	72
	<i>Swertia.</i>	100
	<i>Eupatorium fœniculaceum.</i>	512

*Pescue-gra.*  
*Fever-wort.*  
*Filbert.* V  
*Fire-weed.*  
*Fir-tree.*  
*Flag.*  
 —. Swe  
*Flax.*  
*Flea-bane.*  
*Flix-weed.*  
*Flower-de-*  
*Flowering-f*  
*Fluellin.*  
*Flux-weed.*  
*Fly-catch-b*  
*Fox-tail-gra*  
*Fringe-tree.*  
*Full-fern.*  
*Fumatory.*  
*Fuller's Thi*  
 Garlic. Wi  
 Gentian.  
 Germander.  
 Ginger. Wi  
 Ginseng.  
 Glass-wort.  
 Globe-flower  
 Goat's Rue.  
 Golden-rod.  
 — pert.  
 Goldilocks.  
 Gooseberry.  
 Goose-foot.  
 — grass.  
 Grape-vine.  
 Grass of Parr  
 — Wrack.  
 Gravel-wort.  
 Green Dragon  
 Gromwel.  
 Ground Ivy.  
 Ground Pine.

391	Fescue-grass.	<i>Festuca.</i>	83
635	Fever-wort.	<i>Triosteum.</i>	162
428	Filbert. Wild-	<i>Corylus.</i>	634
381	Fire-weed.	<i>Senecio hieracifolius.</i>	521
524	Fir-tree.	<i>Pinus.</i>	669
163	Flag.	<i>Iris.</i>	29
645	—, Sweet-	<i>Acorus.</i>	235
145	Flax.	<i>Linum.</i>	210
117	Flea-bane.	<i>Conyza.</i>	523
526	Mix-weed.	<i>Sisymbrium Sophia.</i>	440
526	Flower-de-luce.	<i>Iris.</i>	29
563	Flowering-fern.	<i>Osmunda.</i>	657
497	Flüellin.	<i>Antivrhinum Elatine.</i>	421
265	Flux-weed.	<i>Geranium maculatum.</i>	440
284	Fly-catch-bush.	<i>Bejaria.</i>	362
225	Fox-tail-grass.	<i>Alopecurus.</i>	65
7	Fringe-tree.	<i>Chionanthus.</i>	7
347	Full-fern.	<i>Acrostichum.</i>	658
406	Fumatory.	<i>Fumaria. Corydalis.</i>	463
247	Fuller's Thistle.	<i>Dipsacus.</i>	96
116	Garlic. Wild-	<i>Allium.</i>	222
179	Gentian.	{ <i>Gentiana.</i>	185
239		{ <i>Triosteum.</i>	162
107	Germander.	<i>Teucrium.</i>	405
411	Ginger. Wild-	<i>Asarum.</i>	596
194	Ginseng.	<i>Panax.</i>	191
366	Glass-wort.	<i>Salicornia.</i>	2
22	Globe-flower.	<i>Trollius.</i>	391
203	Goat's Rue.	<i>Tephrosia.</i>	489
531	Golden-rod.	<i>Solidago.</i>	535
582	— pert.	<i>Gratiola aurea.</i>	92
381	Goldilocks.	{ <i>Chrysocoma.</i>	517
199		{ <i>Ranunculus Auricomus.</i>	391
115	Gooseberry.	<i>Ribes.</i>	163
189	Goose-foot.	<i>Chenopodium.</i>	197
524	— grass.	<i>Galium.</i>	102
430	Grape-vine.	<i>Vitis.</i>	169
101	Grass of Parnassus.	<i>Parnassia.</i>	208
448	— Wrack.	<i>Zostera.</i>	2
138	Gravel-wort.	<i>Monarda punctata.</i>	19
4	Green Dragon.	<i>Arum Dracunculus.</i>	400
72	Gromwel.	<i>Lithospermum.</i>	131
100	Ground Ivy.	{ <i>Glichoma.</i>	408
512		{ <i>Epigæa.</i>	297
	Ground Pine.	<i>Lycopodium dendroideum.</i>	653
		<i>Ajuga Chamæpithys.</i>	404

Ground Cherry.	<i>Physalis.</i>	157
Groundsel.	<i>Senecio.</i>	528
— tree.	<i>Baccharis.</i>	523
Guelder-rose, Ameri-	<i>Viburnum.</i>	201
can.	<i>Spiræa opulifolia.</i>	342
Gum-tree. Sour-	<i>Nyssa villosa.</i>	177
— Sweet-	<i>Liquidambar.</i>	635
Hag-berry.	<i>Celtis.</i>	200
Hackmatack.	<i>Pinus pendula.</i>	639
Hair-grass.	<i>Aira.</i>	76
Hard-grass.	<i>Rottboellia.</i>	88
Hart's-tongue.	<i>Scolopendrium.</i>	667
Hawkweed.	<i>Hieracium.</i>	502
Hawthorn.	<i>Crataegus.</i>	376
Hazel-nut.	<i>Corylus.</i>	634
Heal-all.	<i>Galax.</i>	416
Heart-seed.	<i>Viola clandestina.</i>	171
Heart's-ease.	<i>Cardiospermum.</i>	273
	<i>Viola.</i>	171
Heath. Yellow-	<i>Hudsonia.</i>	364
	<i>Hypericum densiflorum.</i>	376
Heliotrope.	<i>Heliotropium.</i>	130
Hellebore. Green-	<i>Veratrum viride.</i>	242
Hemlock.	<i>Conium.</i>	195
—, Spruce-	<i>Pinus canadensis.</i>	639
—, Water-	<i>Phellandrium.</i>	195
Hemp.	<i>Cannabis.</i>	199
—, Indian-	<i>Apocynum.</i>	179
—, River-	<i>Acnida.</i>	208
Henbane.	<i>Hyoscyamus.</i>	141
Henbit.	<i>Lamium amplexicaule.</i>	406
Heptree.	<i>Rosa.</i>	344
Herb Bennet.	<i>Geum.</i>	351
— Christopher.	<i>Actæa.</i>	366
— Robert.	<i>Geranium Robertianum.</i>	449
High-taper.	<i>Verbascum.</i>	142
Hickory or Hickery.	<i>Juglans.</i>	636
Hobble-bush.	<i>Viburnum lantanoides.</i>	201
Hog-nut.	<i>Juglans porcina.</i>	638
— weed.	<i>Ambrosia.</i>	580
Holly.	<i>Ilex.</i>	117
Hone-wort.	<i>Sison.</i>	194
Honey-suckle.	<i>Caprifolium.</i>	160
	<i>Aquilegia.</i>	372
—, Upright-	<i>Azalea.</i>	151
Hoop-Ash.	<i>Celtis.</i>	200

Hop.  
 — Horn  
 Horehound  
 —  
 Hornbeam  
 Hornwort.  
 Horse-tail.  
 Horse-wee  
 Hound's-to  
 Huckleber  
 —  
 Hyssop.  
 —, H  
 —  
 Jacob's Lac  
 —  
 Jalap.  
 —  
 Jasmine. C  
 Jesuit's Ba  
 Indian Cor  
 — Cuc  
 — Fig.  
 — Mill  
 —  
 — Phys  
 — Rice  
 — Reed  
 Indigo.  
 —, Ba  
 Ink-berry.  
 —  
 Ipecacuanha  
 —  
 Iron-weed.  
 — wood.  
 Judas-tree.  
 —  
 Juniper.  
 —  
 Kidney Bear  
 Knawel.  
 —  
 Knot-grass.  
 —  
 Ladies' Bed  
 — Man

157	Hop.	<i>Humulus.</i>	199
528	— Hornbeam.	<i>Ostrya.</i>	623
523	Horehound.	<i>Marrubium.</i>	408
201	— Water-	<i>Lycopus.</i>	16
342	Hornbeam-tree.	<i>Carpinus.</i>	623
177	Hornwort.	<i>Ceratophyllum.</i>	370
635	Horse-tail.	<i>Equisetum.</i>	651
	Horse-weed.	<i>Collinsonia.</i>	20
200	Hound's-tongue.	<i>Cynoglossum.</i>	133
639	Huckleberry.	<i>Vaccinium.</i>	284
76	— Bastard-	<i>Andromeda.</i>	290
88	Hyssop.	<i>Hyssopus.</i>	406
667	— Hedge-	<i>Gratiola.</i>	12
502			
376	Jacob's Ladder.	<i>Polemonium.</i>	151
634	Jalap.	{ <i>Ipomœa Jalapa.</i>	147
416		{ <i>Convolvulus panduratus.</i>	143
171	Jasmine. Carolina-	<i>Gelseminum.</i>	184
273	Jesuit's Bark-tree. Bastard-	<i>Iva.</i>	580
171	Indian Corn.	<i>Zea.</i>	46
364	— Cucumber.	<i>Medeola.</i>	244
376	— Fig.	<i>Cactus.</i>	327
130	— Millet.	<i>Sorghum.</i>	78
242	— Physic.	{ <i>Magnolia auriculata.</i>	382
195		{ <i>Spirœa trifoliata.</i>	341
639	— Rice.	<i>Zizania.</i>	60
195	— Reed or Shot.	<i>Canna.</i>	585
199	Indigo.	<i>Indigofera.</i>	448
179	— Bastard-	<i>Amorpha.</i>	466
208	Ink-berry.	<i>Prinos glaber.</i>	220
141		{ <i>Asclepias tuberosa.</i>	183
406	Ipecacuanha.	{ <i>Euphortia.</i>	605
344		{ <i>Spirœa trifoliata.</i>	341
351		{ <i>Ambrosia.</i>	580
366	Iron-weed.	{ <i>Verbena.</i>	415
449	— wood.	<i>Ostrya.</i>	623
142	Judas-tree.	<i>Cercis.</i>	308
636		{ <i>Juniperus.</i>	646
201	Juniper.	{ <i>Cupressus.</i>	645
638			
580	Kidney Bean.	<i>Phaseolus.</i>	469
117	Knawel.	<i>Scleranthus.</i>	315
194		{ <i>Illecebrum.</i>	445
160	Knot-grass.	{ <i>Polygonum aviculare.</i>	369
372	Ladies' Bedstraw.	<i>Gaium.</i>	102
151	— Mautle.	<i>Atchemilla.</i>	112
200			

Ladies' Slipper.	<i>Cypripedium.</i>	594
—— Smock.	<i>Cardamine.</i>	439
—— Traces.	<i>Neottia.</i>	589
Lamb's Quarters.	<i>Chenopodium viride.</i>	198
Larch-tree.	<i>Pinus pendula.</i>	639
Larkspur.	<i>Delphinium.</i>	371
Laurel.	<i>Laurus.</i>	275
——, Big-	<i>Magnolia grandiflora.</i>	380
——, Mountain-	<i>Rhododendron.</i>	297
——, Sheep-	<i>Kalmia angustifolia.</i>	296
——, Small-	—— <i>latifolia.</i>	
——, Swamp-	<i>Magnolia glauca.</i>	381
Lavender Cotton.	<i>Santolin a.</i>	520
——, Sea-	<i>Statice.</i>	212
Leather-wood.	<i>Dirca.</i>	268
Lettuce.	<i>Lactuca.</i>	500
Lever-wood.	<i>Ostrya.</i>	623
Lily.	<i>Lilium.</i>	221
——, Water-	{ <i>Nymphæa.</i>	358
—— of the Valley.	<i>Nuphar.</i>	369
——, Atamasco-	<i>Convallaria.</i>	232
Lime or Linden-tree.	<i>Amaryllis.</i>	222
Lion's-foot.	<i>Tilia.</i>	362
Liquorice.	<i>Prenanthes.</i>	449
Liver-wort.	<i>Glycyrrhiza.</i>	480
Lizard's-tail.	<i>Hepatica.</i>	391
Loblolly-bay.	<i>Laururus.</i>	252
Locust-tree.	<i>Gordonia.</i>	451
——, Honey-	<i>Robinia.</i>	487
Loose-strife.	<i>Gleditschia.</i>	221
Lovage.	<i>Lysimachia.</i>	135
Louse-wort.	<i>Ligusticum.</i>	193
Lung-wort.	<i>Pedicularis.</i>	424
Lupine.	<i>Pulmonaria.</i>	130
Lyme-grass.	<i>Lupinus.</i>	487
	<i>Elymus.</i>	89
Madder.	<i>Rubia.</i>	102
Madwort.	<i>Alyssum.</i>	434
Mahogany. Mountain-	<i>Betula lenta.</i>	621
Maiden-hair.	<i>Adiantum.</i>	670
Mallow.	<i>Malva.</i>	454
Man's-beard.	<i>Andropogon.</i>	74
Maple-tree.	<i>Acer.</i>	265
Mare's-tail.	<i>Hippuris.</i>	3
Marjoram.	<i>Origanum.</i>	411

Martagon.	
Marygold.	
May-apple.	
—— bush	
—— weed	
Meadow-g	
—— rue	
—— sw	
Medick.	
Melie-grass	
Melilot.	
Mercury.	
Milfoil.	
——, H	
——, V	
Milk-weed.	
—— wort.	
Millet-grass	
Mint.	
——, Horse	
——, tain-	
Mitre-flower	
Misle-toe.	
Mocassin-fl	
Mocker-nut	
Mock Orange	
Monk's-hood	
Monkey-fl	
Moon-seed.	
Moose-wood	
Mouse-ear C	
Mugwort.	
Mulberry.	
Mullein.	
Mustard. H	
——, In	
——, T	
Myrtle. Ca	
——, W	
——, San	
Nettle.	
——, Der	
——, Hec	
Nettle-tree.	

594	Martagon.	<i>Lilium.</i>	229
439	Marygold. Bur-	<i>Bidens.</i>	566
589	———. Marsh-	<i>Caltha.</i>	389
198	May-apple.	<i>Podophyllum.</i>	366
639	—— bush.	<i>Pyrus Botryapium.</i>	339
371	—— weed.	<i>Anthemis.</i>	562
275	Meadow-grass.	<i>Poa.</i>	72
380	—— rue.	<i>Thalictrum.</i>	388
297	—— sweet.	<i>Spiræa.</i>	388
296	Medick.	<i>Medicago.</i>	490
	Melic-grass.	<i>Melica.</i>	77
381	Melilot.	<i>Melilotus.</i>	477
520	Mercury. American-	<i>Lobelia siphilitica.</i>	447
212	Milfoil.	<i>Achillea.</i>	562
268	——. Hooded-	<i>Utricularia.</i>	15
500	——. Water-	<i>Myriophyllum.</i>	274
623	Milk-weed.	<i>Prenanthes.</i>	498
221	—— wort.	<i>Polygala.</i>	464
398	Millet-grass.	<i>Milium.</i>	62
309	Mint.	<i>Mentha.</i>	405
232	——. Horse or Moun-	<i>Monarda.</i>	16
222	tain-	<i>Pycnanthemum.</i>	409
362	Mitre-flower.	<i>Dodecatheon.</i>	136
449	Mistle-toe.	<i>Viscum.</i>	114
480	Mocassin-flower.	<i>Cypripedium.</i>	594
391	Mocker-nut	<i>Juglans.</i>	636
252	Mock Orange.	<i>Philadelphus.</i>	329
451	Monk's-hood.	<i>Aconitum.</i>	372
487	Monkey-flower.	<i>Mimulus.</i>	426
221	Moon-seed.	<i>Menispermum.</i>	370
135	Moose-wood.	<i>Acer striatum.</i>	267
193	Mouse-ear Chickweed.	<i>Cerastium.</i>	320
424	Mugwort.	<i>Artemisia vulgaris.</i>	322
130	Mulberry.	<i>Morus.</i>	639
487	Mullein.	<i>Verbascum.</i>	142
89	Mustard. Hedge-	<i>Erysimum.</i>	436
	——. Indian-	<i>Dentaria.</i>	438
	——. Tower-	<i>Turritis.</i>	438
434	Myrtle. Candleberry-	<i>Myrica.</i>	620
621	——. Wax-	<i>Ammyrsine.</i>	301
670	——. Sand-		
454	Nettle.	<i>Urtica.</i>	112
74	——. Dead-	<i>Galeopsis.</i>	407
265	——. Hedge-	<i>Stachys.</i>	407
3	Nettle-tree.	<i>Celtis.</i>	200
411			

Nightshade.	<i>Solanum.</i>	156
——. Enchanter's-	<i>Circea.</i>	21
Nonsuch.	<i>Medicago Lupulina.</i>	490
Nut-grass.	<i>Cyperus.</i>	50
Oak.	<i>Quercus.</i>	625
Oat. Sea-side-	<i>Uniola.</i>	82
——. Grass.	<i>Avena.</i>	85
Ogechee-lime.	<i>Nyssa candicans.</i>	177
Oil-nut.	<i>Hamiltonia.</i>	178
Okro.	<i>Juglans cinerea.</i>	636
Olive-tree.	<i>Hibiscus esculentus.</i>	456
Orache.	<i>Olea.</i>	7
Orchard-grass.	<i>Atriplex.</i>	199
Orpine.	<i>Dactylis.</i>	84
Osier.	<i>Sedum.</i>	323
——. Red-	<i>Salix.</i>	608
	<i>Cornus.</i>	109
Palmetto-tree.	<i>Chamærops.</i>	209
Palma Christi.	<i>Ricinus.</i>	602
Panic-grass.	<i>Panicum.</i>	60
Pansy.	<i>Viola tricolor.</i>	171
Papaw-tree.	<i>Porcelia.</i>	383
Parsley. Cow-	<i>Chærophyllyllum.</i>	195
——. Milk-	<i>Selinum.</i>	192
——. piert.	<i>Alchemilla arvensis.</i>	112
Parsnep.	<i>Pastinaca.</i>	196
——. Cow-	<i>Heracleum.</i>	192
——. Water-	<i>Sium.</i>	194
Partridge-berry.	<i>Gaultheria.</i>	283
Passion-flower.	<i>Passiflora.</i>	444
Paul's Betony.	<i>Veronica serpyllifolia.</i>	10
Pea.	<i>Pisum.</i>	470
Pearl-wort.	<i>Sagina.</i>	119
Pear.	<i>Pyrus.</i>	339
Pecan-nut.	<i>Juglans.</i>	636
Pellitory.	<i>Parietaria.</i>	114
Penny-cress.	<i>Thlaspi-arvense.</i>	435
—— royal.	<i>Hedeoma.</i>	414
—— wort.	<i>Hydrocotyle.</i>	190
Pepper-wort.	<i>Lepidium.</i>	435
—— root.	<i>Dentaria.</i>	438
—— vine.	<i>Cissus bipinnata.</i>	170
Persicaria.	<i>Polygonum.</i>	269
Persimon.	<i>Diospyros.</i>	265

Pig-nut.  
Pimpernel.

Pine-tree.

Pink.

Pink-root.

——. Wil.

Pipe-wort.

Piperidge-b.

Plane-tree.

Plantain.

——. R.

——. V.

Plum-tree.

Poison Elde.

—— Oak.

Poke-root.

Pond-weed.

——.

——.

Poplar-tree.

——. WI.

Poppy.

Prickly-pea.

Prim.

Prince's Fea.

Privet.

Puccoon.

Purslane.

——. W.

Quaking Gr.

Quamash.

——.

——.

Rag-weed.

—— wort.

Raspberry.

Rattle-pea.

Rattle-snake.

——.

——.

——.

——.

——.

——.

Red-root.

156	Pig-nut.	<i>Juglans porcina.</i>	638
21	Pimpernel.	<i>Anagallis.</i>	135
490	——. Water-	<i>Samolus.</i>	158
50	Pine-tree.	<i>Pinus.</i>	639
625	Pink.	<i>Dianthus.</i>	314
82	Pink-root.	<i>Spigelia.</i>	139
85	——. Wild-	<i>Silene.</i>	315
177	Pipe-wort.	<i>Eriocaulon.</i>	91
178	Piperidge-bush.	<i>Berberis.</i>	219
636	Plane-tree.	<i>Platanus.</i>	635
456	Plantain.	<i>Plantago.</i>	98
7	——. Rattle-snake-	<i>Erigeron bellidifolium.</i>	532
199	——. Water-	<i>Alisma.</i>	352
84	Plum-tree.	<i>Prunus.</i>	329
323	Poison Elder.	<i>Aralia hispida.</i>	209
608	—— Oak.	<i>Rhus Toxicodendron.</i>	205
109	Poke-root.	<i>Phytolacca.</i>	324
	Pond-weed.	<i>Potamogeton.</i>	120
299	——. Horned-	<i>Zannichellia.</i>	4
602	——. Tassel-	<i>Ruppia.</i>	121
60	Poplar-tree.	<i>Populus.</i>	618
171	——. White-	<i>Liriodendron.</i>	382
383	Poppy.	<i>Papaver.</i>	365
195	Prickly-pear.	<i>Cactus.</i>	327
192	Prim.	<i>Ligustrum.</i>	7
112	Prince's Feather.	<i>Amaranthus.</i>	207
196	Privet.	<i>Ligustrum.</i>	7
192	Puccoon.	<i>Sanguisorba.</i>	116
194		<i>Batschia.</i>	132
283	Purslane.	<i>Portulacca.</i>	365
444	——. Water-	<i>Peplis.</i>	238
10	Quaking Grass.	<i>Briza.</i>	82
470	Quamash.	<i>Phalangium.</i>	226
119			
339	Rag-weed.	<i>Erigeron.</i>	532
636	—— wort.	<i>Senecio.</i>	528
114	Raspberry.	<i>Rubus.</i>	346
435	Rattle-pea.	<i>Crotalaria.</i>	469
414	Rattle-snake's-master.	<i>Liatris squarrosa.</i>	509
190	—— plantain.	<i>Erigeron bellidifolium.</i>	532
435	—— root.	<i>Polygala.</i>	464
438	—— weed.	<i>Sonchus floridanus.</i>	501
170		<i>Prenanthes.</i>	498
269		<i>Ceanothus.</i>	167
265	Red-root.	<i>Lewisia.</i>	368

Reed-grass.	<i>Arundo.</i>	86
— mace.	<i>Typha.</i>	34
Rib-fern.	<i>Blechnum.</i>	669
— wort.	<i>Plantago lanceolata.</i>	98
Rice. Canada-	<i>Zizania.</i>	60
— Mountain-	<i>Oryzopsis.</i>	69
Rock Rose.	<i>Helianthemum.</i>	303
Rocket.	<i>Hesperis.</i>	436
— Sea-	<i>Cakile.</i>	434
Rose.	<i>Rosa.</i>	844
Rose Bay.	<i>Rhododendron.</i>	297
Rosemary. Wild-	<i>Andromeda polifolia.</i>	291
Rush.	<i>Juncus.</i>	235
Rye.	<i>Secale.</i>	90
— Wild-	<i>Elymus.</i>	89
Saca-commis.	<i>Arbutus Uva ursi.</i>	283
Sage.	<i>Salvia.</i>	19
St. Andrew's Cross.	<i>Acyrum.</i>	373
St. Barnaby's Thistle.	<i>Centaurea solstitialis.</i>	576
St. John's-wort.	<i>Hypericum.</i>	374
St. Peter's-wort.	<i>Symphoria.</i>	162
Salt-wort.	<i>Salicornia.</i>	2
— Black-	<i>Salsola.</i>	197
Samphire.	<i>Glaux.</i>	176
Sand-wort.	<i>Salicornia.</i>	2
	<i>Arenaria.</i>	317
Sarsaparilla.	<i>Aralia nudicaulis.</i>	209
	<i>Smilax.</i>	249
	<i>Menispermum.</i>	370
Sassafras-tree.	<i>Laurus Sassafras.</i>	277
— Swamp-	<i>Magnolia glauca.</i>	381
Savin.	<i>Juniperus Sabina.</i>	646
Saxifrage.	<i>Saxifraga.</i>	310
— Golden-	<i>Chrysosplenium.</i>	269
— Meadow-	<i>Seseli.</i>	197
Scorpion-grass.	<i>Myosotis.</i>	133
Scull-cap.	<i>Scutellaria.</i>	412
Scunk-weed.	<i>Pothos.</i>	398
— cabbage.		
Sea-mat-grass.	<i>Arundo arenaria.</i>	87
Self-heal.	<i>Prunella.</i>	411
Sensitive-fern.	<i>Onoclea.</i>	665
— pea.	<i>Cassia nicticans.</i>	305
— briar.	<i>Schrankia.</i>	365
Sedge.	<i>Carex.</i>	34
	<i>Schoenus.</i>	47

Seneca Gr.  
Sengreen.  
Service-tree.  
Shave-grass.  
Shell- or S.  
Sheep-berr.  
Shepherd's.  
Shield-fern.  
Side-saddle.  
Silver-tree.  
— bell.  
Snake-root.  
—  
—  
—  
—  
— weed.  
Snap-drago.  
Sneeze-wor.  
Snow-berry.  
Snow-drop.  
— flock-  
— flower.  
Soap-berry.  
— wort.  
Solomon's S.  
Sorrel.  
— tree.  
Spear-wort.  
Speedwell.  
Spice-wood.  
Spider-wort.  
Spikenard.  
Spindle-tree.  
Spleen-wort.  
Spoon-wood.  
Spring-grass.  
Spruce-pine.  
Spurrey.  
Staff-tree.  
Star-wort.  
—  
—

86	Seneca Grass.	<i>Holcus fragrans.</i>	78
34	Sengreen.	<i>Saxifraga nivalis.</i>	310
669	Service-tree.	{ <i>Sorbus.</i>	341
98		{ <i>Pyrus.</i>	339
60	Shave-grass.	<i>Equisetum hyemale.</i>	651
69	Shell- or Shag-bark.	<i>Juglans alba.</i>	637
363	Sheep-berry.	<i>Viburnum prunifolium.</i>	201
436	Shepherd's-purse.	<i>Thlaspi.</i>	435
434	Shield-fern.	<i>Aspidium.</i>	660
344	Side-saddle-flower.	<i>Sarracenia.</i>	367
297	Silver-tree.	<i>Elæagnus.</i>	114
291	— bell tree.	<i>Halesia.</i>	449
235	Snake-root.	<i>Aristolochia.</i>	596
90	—, Black-	<i>Cimicifuga Serpentaria.</i>	372
89	—, Button-	<i>Liatris.</i>	507
283	—, Plantain-	<i>Erigeron bellidifolium.</i>	532
19	—, Fern.	<i>Botrychium.</i>	655
373	— weed.	<i>Polygonum bistortoides.</i>	271
576	Snap-dragon	<i>Antirrhinum.</i>	421
374	Sneeze-wort.	{ <i>Achillea Ptarmica.</i>	562
162		{ <i>Convallaria.</i>	232
2	Snow-berry.	<i>Chiococca.</i>	160
197	Snow-drop-tree.	<i>Halesia.</i>	449
176	— flock-tree.	{ <i>Chionanthus.</i>	7
2	— flower.		
317	Soap-berry.	<i>Sapindus.</i>	274
209	— wort.	<i>Saponaria.</i>	314
249	Solomon's Seal.	<i>Polygonatum.</i>	254
370	Sorrel.	<i>Rumex.</i>	247
277	— tree.	<i>Andromeda arborea.</i>	295
381	Spear-wort.	<i>Ranunculus Lingua.</i>	391
646	Speedwell.	<i>Veronica.</i>	10
310	Spice-wood.	<i>Laurus Benzoin.</i>	276
269	Spider-wort.	<i>Tradescantia.</i>	218
197	Spikenard.	<i>Aralia racemosa.</i>	209
133	Spindle tree.	<i>Evonymus.</i>	168
412	Spleen-wort.	<i>Asplenium.</i>	665
398	Spoon-wood.	<i>Tilia.</i>	362
87	Spring-grass.	<i>Anthoxanthum.</i>	65
411	Spruce-pine.	<i>Pinus.</i>	639
665	Spurrey.	<i>Spergula.</i>	320
305	Staff-tree.	<i>Celastrus.</i>	167
365		{ <i>Aster.</i>	543
34	Star-wort.	{ <i>Aletris.</i>	225
47		{ <i>Melanthium dioicum.</i>	242
	—, Water-	<i>Callitriche.</i>	3

Stitch-wort.	<i>Stellaria.</i>	317
Stock.	<i>Cheiranthus.</i>	496
Stone-crop.	<i>Sedum.</i>	323
Stramonium.	<i>Datura.</i>	141
Strawberry.	<i>Fragaria.</i>	357
— Blite.	<i>Blitum.</i>	4
— tree.	<i>Arbutus.</i>	282
Succory.	<i>Cichorium Intybus.</i>	496
— Gum-	<i>Chondrilla.</i>	497
Sugar-cane. Wild-	<i>Saccharum.</i>	73
Sugar-tree.	<i>Acer saccharinum.</i>	266
Sumach.	<i>Rhus.</i>	204
Sun-dew.	<i>Drosera.</i>	210
— drop.	<i>Oenothera fruticosa.</i>	262
— flower.	<i>Helianthus.</i>	570
— Tick-seed-	<i>Coreopsis.</i>	567
Supple Jack.	<i>Zizyphus.</i>	188
Swallow-wort.	<i>Asclepias.</i>	180
Sweet-bay.	<i>Laurus.</i>	275
— briar.	<i>Magnolia glauca.</i>	381
— fern-bush.	<i>Rosa.</i>	344
— gale.	<i>Comptonia.</i>	635
— leaf.	<i>Myrica.</i>	620
— scented shrub.	<i>Hopea.</i>	451
Sycamore.	<i>Calycanthus.</i>	357
Tacamahac.	<i>Platanus.</i>	635
Tallow-tree.	<i>Populus balsamifera.</i>	618
Tamarack.	<i>Stillingia.</i>	608
Tansey.	<i>Pinus pendula.</i>	639
— Wild-	<i>Tanacetum.</i>	523
Tarragon.	<i>Potentilla Anserina.</i>	356
Tea. Labrador-	<i>Artemisia Dracunculus.</i>	521
— Mountain-	<i>Ledum latifolium.</i>	300
— New Jersey-	<i>Gaultheria.</i>	283
— Oswego-	<i>Ceanothus.</i>	167
— South Sea-	<i>Monarda.</i>	17
Teasel.	<i>Ilex vomitoria.</i>	118
Thistle.	<i>Dipsacus.</i>	96
— Sow-	<i>Carduus.</i>	507
Thorn-apple.	<i>Cnicus.</i>	
Thorough-wort.	<i>Sonchus.</i>	501
Thrift.	<i>Datura.</i>	141
Thyme.	<i>Eupatorium perfoliatum.</i>	516
Tick-seed.	<i>Statice.</i>	221
	<i>Thymus.</i>	413
	<i>Corispermum.</i>	4

Timothy-grass.  
 Toad-flax.  
 —.  
 Tobacco.  
 Tooth-ach-tree.  
 Tooth-wort.  
 Touch-me-not.  
 Traveller's-joint.  
 Tread-sofly.  
 Tree Primrose.  
 Trefoil.  
 — Bird.  
 — Ma.  
 Trumpet-flow.  
 Tulip-tree.  
 Tupelo.  
 Turnerrick.  
 Turnsole.  
 Umbrella-tree.  
 Valerian.  
 —. Gree.  
 Venus's-fly-trap.  
 Vervain.  
 Vetch.  
 —. Milk-  
 Vine-grape.  
 Violet.  
 —. Water-  
 Viper's Bugloss.  
 — grass.  
 Virgin's-bower.  
 Wake-Robin.  
 Walking-fern.  
 Wall-flower.  
 — nut-tree.  
 — Rue.  
 Water-leaf.  
 — Radish.  
 Wax Myrtle.  
 Way-faring-tree.  
 Wheat.  
 —. Cow-  
 White-wood.  
 VOL. II.

317	Timothy-grass.	<i>Phleum pratense.</i>	65
436	Toad-flax.	<i>Antirrhinum Linaria.</i>	421
323	———. Bastard-	<i>Thesium.</i>	177
141	Tobacco.	<i>Nicotiana.</i>	144
357	Tooth-ach-tree.	<i>Zanthoxylum.</i>	209
4	Tooth-wort.	<i>Dentaria.</i>	438
282	Touch-me-not.	<i>Impatiens.</i>	171
496	Traveller's-joy.	<i>Clematis.</i>	384
497	Tread-softly.	<i>Jatropha.</i>	603
73	Tree Primrose.	<i>Oenothera.</i>	261
266	Trefoil.	<i>Trifolium.</i>	477
204	———. Bird's-foot-	<i>Lotus.</i>	489
210	———. Marsh-	<i>Menyanthes trifolia.</i>	139
262	Trumpet-flower.	<i>Bignonia.</i>	419
570	Tulip-tree.	<i>Liriodendron.</i>	382
567	Tupelo.	<i>Nyssa.</i>	177
188	Turnerick.	<i>Hydrastis.</i>	389
180	Turnsole.	<i>Heliotropium.</i>	130
275			
381	Umbrella-tree.	<i>Magnolia tripetala.</i>	381
344			
635	Valerian.	<i>Valeriana.</i>	26
620	———. Greek-	<i>Polemonium.</i>	151
451	Venus's-fly-trap.	<i>Dionæa.</i>	304
357	Vervain.	<i>Verbena.</i>	415
635	Vetch.	<i>Vicia.</i>	471
618	———. Milk-	<i>Astragalus.</i>	472
608	Vine-grape.	<i>Vitis.</i>	169
639	Violet.	<i>Viola.</i>	171
523	———. Water-	<i>Hottonia.</i>	138
356	Viper's Bugloss.	<i>Echium.</i>	130
521	——— grass.	<i>Scorzonera.</i>	497
300	Virgin's-bower.	<i>Clematis.</i>	354
283			
167	Wake-Robin.	<i>Arum.</i>	399
17	Walking-fern.	<i>Lycopodium alopecuroideum.</i>	654
118	Wall-flower.	<i>Cheiranthus.</i>	436
96	—— nut-tree.	<i>Juglans.</i>	636
507	—— Rue.	<i>Asplenium Ruta.</i>	666
	Water-leaf.	<i>Hydrophyllum.</i>	134
501	—— Radish.	<i>Sisymbrium amphibium.</i>	440
141	Wax Myrtle.	<i>Myrica.</i>	620
516	Way-faring-tree.	<i>Viburnum lantanoides.</i>	201
221	Wheat.	<i>Triticum.</i>	90
413	———. Cow-	<i>Melampyrum.</i>	43
4	White-wood.	<i>Tilia.</i>	362

Whitlow-grass.	<i>Draba.</i>	433
Whortle-berry.	<i>Vaccinium.</i>	284
Willow.	<i>Salix.</i>	608
—— herb.	<i>Epilobium.</i>	289
Wind-flower.	<i>Anemone.</i>	386
Winter-berry.	<i>Prinos.</i>	220
—— green.	<i>Pyrola. Chimaphila.</i>	299
——. Chick weed-	<i>Trientalis.</i>	254
Wire-grass.	<i>Chloris.</i>	87
Witch Hazel.	<i>Hamamelis.</i>	116
Wolf's-bane.	<i>Aconitum.</i>	372
Wood-bine.	<i>Coprisfolium.</i>	160
—— sorrel.	<i>Oxalis.</i>	122
Worm-grass.	<i>Spigelia.</i>	
—— seed.	<i>Chenopodium Anthelm.</i>	
	<i>Erysimum cheiranthoides.</i>	
Yam.	<i>Dioscorea.</i>	251
Yarrow	<i>Achillea millefolium.</i>	563
Yellow Rattle.	<i>Rhinanthus.</i>	429
—— Root.	<i>Zantorrhiza.</i>	212
	<i>Hydrastis.</i>	389
Yew-tree.	<i>Taxus.</i>	647

GENE

## ABIES.

Acacia.  
 Acalypha.  
 Acer.  
 Achillea.  
 Achyranthes.  
 Acnida.  
 Aconitum.  
 Acorus.  
 Acrostichum.  
 Acrostichum.

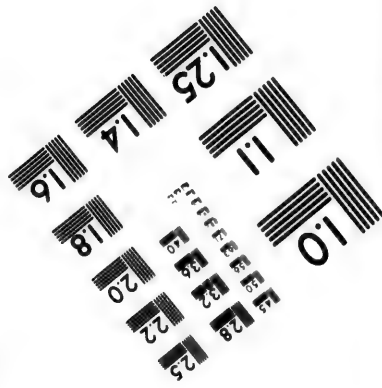
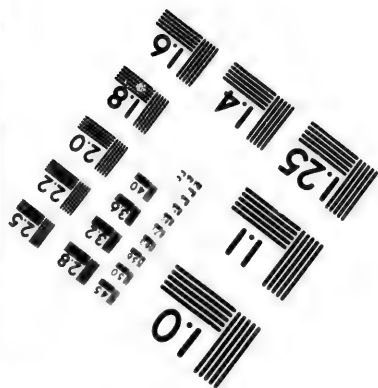
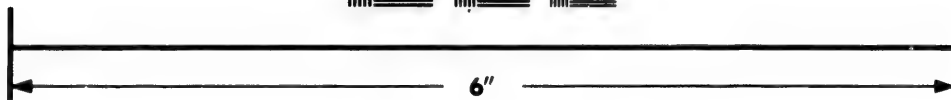
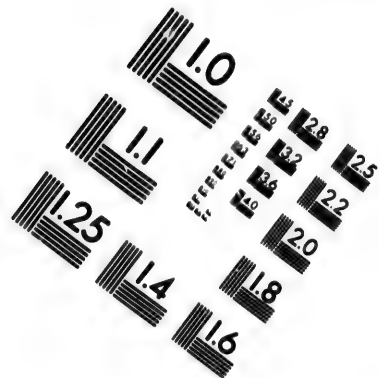
Actæa.  
 Actæa.  
 Actinea.  
 Actinella.  
 Adelia.  
 Adiantum.  
 Egilops.  
 Aeschynomene.  
 Aeschynomene.  
 Esculus.  
 Aßelia.  
 Agave.  
 Ageratum.  
 Agrimonia.  
 Agrostemma.  
 Agrostis.  
 Agrostis.  
 Aira.

# INDEX

## GENERUM ET SYNONYMORUM.

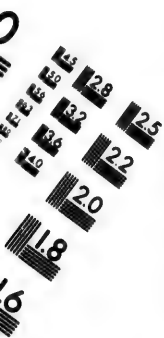
<i>ABIES.</i>	639	<i>Aira.</i>	85
Acacia.	i. 373) 305	Ajuga.	ii. 471) 404
Acalypha.	ii. 687) 604	Alchemilla.	i. 139) 112
Acer.	i. 342) 265	Aletris.	i. 293) 225
Achillea.	ii. 646) 562	Alisma.	i. 331) 252
<i>Achyranthes.</i>	445	Allionia.	i. 118) 97
Acnida.	i. 268) 208	Allium.	i. 288) 222
Aconitum.	ii. 445) 372	Alnus.	ii. 695) 622
Acorus.	i. 309) 235	Alopecurus.	i. 77) 65
Acrostichum.	ii. 721) 638	<i>Alsine.</i>	317
<i>Acrostichum.</i>	659, 660,	Alyssum.	ii. 523) 434
	661, 666, 670	Amaranthus.	i. 267) 206
Actæa.	ii. 435) 366	Amaryllis.	i. 287) 223
<i>Actæa.</i>	372, 373	Ambrosia.	ii. 666) 580
<i>Actinea.</i>	560	Amellus.	ii. 650) 564
Actinella.	ii. 639) 560	<i>Amellus.</i>	562
<i>Adelia.</i>	22	Ammannia.	i. 135) 107
Adiantum.	ii. 733) 670	Ammi.	i. 238) 192
<i>Ægilops.</i>	87, 88	Ammyrsine.	i. 366) 301
Aeschynomene.	ii. 583) 485	Amorpha.	ii. 561) 466
<i>Aeschynomene.</i>	485	<i>Ampelopsis.</i>	170
Æsculus.	i. 333) 254	Amsonia.	i. 225) 184
<i>Æzelia.</i>	424	Anagallis.	i. 166) 135
Agave.	i. 294) 226	Andromeda.	i. 358) 290
<i>Ageratum.</i>	516	<i>Andromeda.</i>	264, 286
Agrimonia.	i. 409) 335	<i>Androphylax.</i>	252
Agrostemma.	i. 393) 321	Andropogon.	i. 85) 74
Agrostis.	i. 73) 63	<i>Andropogon.</i>	73
<i>Agrostis.</i>	61, 87	Androsace.	i. 170) 137
Aira.	i. 89) 76	Anemone.	ii. 457) 386





# Photographic Sciences Corporation

**23 WEST MAIN STREET  
WEBSTER, N.Y. 14580  
(716) 872-4503**



<i>Anemone.</i>	391	<i>Aspidium.</i>	ii. 724) 660
<i>Angelica.</i>	i. 243) 193	<i>Aspidium.</i>	670
<i>Anona.</i>	383	<i>Asplenium.</i>	ii. 727) 666
<i>Anonymos Walteri.</i>	10,	<i>Asplenium.</i>	664, 667
13, 28, 31, 115, 132,		<i>Aster.</i>	ii. 636) 543
139, 185, 187, 231,		<i>Aster.</i>	532, 533, 534
252, 334, 416, 424,		<i>Astragalus.</i>	ii. 570) 472
474, 484, 507, 508,		<i>Astragalus.</i>	473
510, 511		<i>Athanasia.</i>	519, 520
<i>Anthemis.</i>	ii. 645) 562	<i>Atheropogon.</i>	i. 86) 75
<i>Anthericum.</i>	242, 246	<i>Athyrium.</i>	664
<i>Anthoxanthus.</i>	i. 74) 65	<i>Atragene.</i>	ii. 455) 384
<i>Anthoxanthum.</i>	73	<i>Atriplex.</i>	i. 255) 199
<i>Antirrhinum.</i>	ii. 506) 421	<i>Atropa.</i>	158
<i>Anychia.</i>	i. 2'7) 176	<i>Avena.</i>	i. 100) 85
<i>Apargia.</i>	ii. 594) 497	<i>Avena.</i>	76
<i>Aphanes.</i>	112	<i>Azalea.</i>	i. 190) 151
<i>Apia.</i>	ii. 572) 473	<i>Azalea.</i>	264
<i>Apium.</i>	192	<i>Azolla.</i>	ii. 739) 672
<i>Apocynum.</i>	i. 223) 179	<i>Baccharis.</i>	ii. 623) 523
<i>Aquilegia.</i>	ii. 446) 372	<i>Baccharis.</i>	524
<i>Arabis.</i>	ii. 530) 436	<i>Balsamona.</i>	335
<i>Arachis.</i>	480	<i>Baltimora.</i>	ii. 663) 580
<i>Aralia.</i>	i. 270) 209	<i>Bartonia.</i>	i. 400) 327
<i>Arbutus.</i>	i. 355) 282	<i>Bartonia.</i>	100
<i>Arbutus.</i>	283	<i>Bartsia.</i>	ii. 515) 429
<i>Arctium.</i>	ii. 606) 505	<i>Batschia.</i>	i. 160) 132
<i>Arenaria.</i>	i. 389) 317	<i>Bejaria.</i>	362
<i>Arethusa.</i>	ii. 673) 590	<i>Bejaria.</i>	ii. 423) 362
<i>Arethusa.</i>	591, 593	<i>Bellis.</i>	ii. 626) 526
<i>Argemone.</i>	ii. 433) 366	<i>Berberis.</i>	i. 283) 219
<i>Argolasia.</i>	224	<i>Bernhardia.</i>	ii. 715) 655
<i>Aristida.</i>	i. 82) 72	<i>Betula.</i>	ii. 694) 620
<i>Aristolochia.</i>	i. 679) 596	<i>Betula.</i>	623
<i>Arnica.</i>	ii. 629) 527	<i>Bidens.</i>	ii. 653) 566
<i>Artemisia.</i>	ii. 631) 520	<i>Bidens.</i>	519
<i>Arum.</i>	ii. 470) 399	<i>Bignonia.</i>	ii. 503) 419
<i>Arundinaria.</i>	59	<i>Bignonia.</i>	10, 185
<i>Arundo.</i>	i. 101) 86	<i>Biscutella.</i>	435
<i>Arundo.</i>	59, 65	<i>Blairia.</i>	417
<i>Asarum.</i>	ii. 680) 596	<i>Blandfordia.</i>	446
<i>Asclepias.</i>	i. 224) 180	<i>Blechnum.</i>	ii. 731) 669
<i>Ascyrum.</i>	ii. 448) 373	<i>Blechnum.</i>	670
<i>Ascyrum.</i>	379	<i>Blitum.</i>	i. 7) 4
<i>Asparagus.</i>	i. 307) 235		

*Boebera.*  
*Boehmeria.*  
*Boerhavia.*  
*Boltonia.*  
*Borya.*  
*Botrychium.*  
*Botrypus.*  
*Brachystem.*  
*Brasenia.*  
*Brassica.*  
*Briza.*  
*Brodiaea.*  
*Bromus.*  
*Brunnichia.*  
*Buchnera.*  
*Buchnera.*  
*Bumelia.*  
*Bunias.*  
*Buphthalmu.*  
*Buphthalmu.*  
*Burmanningia.*  
  
*Cabomba.*  
*Cacalia.*  
*Cactus.*  
*Cakile.*  
*Caladium.*  
*Calamintha.*  
*Calla.*  
*Calla.*  
*Callicarpa.*  
*Calligonum.*  
*Callitriche.*  
*Calochortus.*  
*Caltha.*  
*Calycanthus.*  
*Calydermos.*  
*Calypso.*  
*Calystegia.*  
*Campanula.*  
*Canna.*  
*Cannabis.*  
*Cantua.*  
*Capraria.*  
*Caprifolium.*

24) 660	Boebera.	ii. 638)	559	Cardamine.	ii. 534)	439
670	Boehmeria.	i. 140)	112	Cardiospermum.	i. 349)	273
27) 666	Boerhavia.	i. 39)	31	Carduus.	ii. 608)	507
564, 667	Boltonia.	ii. 641)	561	<i>Carduus.</i>		506
36) 543	Borya.	i. 30)	22	Carex.	i. 47)	34
533, 534	Botrychium.	ii. 717)	655	<i>Carex.</i>		45
70) 472	Botrypus.		655	Carpinus.	ii. 696)	623
473	<i>Brachystemum.</i>		409, 410	<i>Carpinus.</i>		623
519, 520	Brasenia.	ii. 460)	389	<i>Carthamus.</i>		505
86) 75	Brassica.	ii. 532)	438	Cassia.	i. 375)	305
664	Briza.	i. 94)	82	<i>Cassine.</i>		118
455) 384	Brodiaea.	i. 289)	223	<i>Castalia.</i>		368
255) 199	Bromus.	i. 98)	85	Castanea.	ii. 699)	624
158	Brunnichia.	i. 348)	273	Catalpa.	i. 16)	10
100) 85	Buchnera.	ii. 505)	421	Caulinia.	i. 2)	2
76	<i>Buchnera.</i>		416	Caulophyllum.	i. 282)	218
190) 151	Bumelia.	i. 191)	155	Ceanothus.	i. 206)	167
264	<i>Bunias.</i>		434	Celastrus.	i. 207)	167
739) 672	Buphthalmum.	ii. 649)	563	Celtis.	i. 259)	200
	<i>Buphthalmum.</i>		563	Cenchrus.	i. 66)	60
623) 523	Burmannia.	i. 278)	217	Centaurea.	ii. 658)	576
524				Centaurella.	i. 124)	99
335	<i>Cabomba.</i>		239	Centunculus.	i. 121)	97
663) 580	Cacalia.	ii. 615)	518	Cephalanthus.	j. 144)	114
400) 327	Cactus.	i. 399)	327	<i>Cephaloris.</i>		238
100	Cakile.	ii. 522)	434	Cerastium.	i. 392)	320
515) 429	<i>Caladium.</i>		399	Ceratiola.	i. 20)	21
160) 132	Calamintha.	ii. 492)	413	Ceratophyllum.	ii. 440)	370
362	Calla.	ii. 469)	399	Cercis.	i. 377)	308
423) 362	<i>Calla.</i>		399	Ceropegia.	i. 224 b.)	184
626) 526	Callicarpa.	i. 120)	97	Chærophyllum.	i. 249)	195
283) 219	Calligonum.	ii. 441)	370	Chamærops.	i. 314)	239
715) 655	Callitriche.	i. 6)	3	<i>Chamærops.</i>		239
694) 620	Calochortus.	i. 316)	240	Chaptalia.	ii. 659)	577
623	Caltha.	ii. 461)	389	Chara.	i. 10)	4
653) 566	Calycanthus.	i. 422)	357	Cheilanthes.	ii. 734)	670
519	<i>Calydermos.</i>		158	Cheiranthus.	ii. 528)	436
503) 419	Calypso.	ii. 677)	593	<i>Cheiranthus.</i>		436
10, 185	Calystegia.	i. 183)	142	Chelidonium.	ii. 429)	365
435	Campanula.	i. 197)	159	<i>Chelidonium.</i>		365
417	Canna.	ii. 670)	585	Chelone.	ii. 510)	427
446	Cannabis.	i. 256)	199	<i>Chelone.</i>		427, 428
731) 609	Cantua.	i. 186)	147	Chenopodium.	i. 254)	197
670	Capraria.	ii. 499)	418	Chimaphila.	i. 364)	300
7) 4	Caprifolium.	i. 199)	160	Chiococca.	i. 198)	160

<i>Chionanthus</i> , i. 13)	7	<i>Convolvulus</i> , i. 184)	143
<i>Chironia</i> , 137		<i>Convolvulus</i> , 142, 145, 146	
<i>Chlora</i> , 137		<i>Conyza</i> , ii. 624)	523
<i>Chloris</i> , i. 103)	87	<i>Conyza</i> , 543, 544, 556	
<i>Chondrilla</i> , ii. 597)	497	<i>Coptis</i> , ii. 462)	390
<i>Chrysanthemum</i> , ii. 627)	526	<i>Coreopsis</i> , ii. 654)	567
<i>Chrysanthemum</i> , 527, 561		<i>Coreopsis</i> , 565, 566	
<i>Chrysobalanus</i> , i. 403)	329	<i>Corispermum</i> , i. 8)	4
<i>Chrysocoma</i> , ii. 614)	517	<i>Cornucopice</i> , 61	
<i>Chrysocoma</i> , 511, 512, 540		<i>Cornus</i> , i. 137)	107
<i>Chrysogonum</i> , ii. 662)	579	<i>Coronopus</i> , ii. 524)	435
<i>Chrysosplenium</i> , i. 346)	269	<i>Corydalis</i> , ii. 558)	462
<i>Cichorium</i> , ii. 593)	496	<i>Corylus</i> , ii. 701)	634
<i>Cicuta</i> , i. 247)	195	<i>Corypha</i> , 239, 240	
<i>Cicuta</i> , 194		<i>Cotula</i> , 562	
<i>Cimicifuga</i> , ii. 447)	372	<i>Cratægus</i> , i. 410)	336
<i>Cineraria</i> , ii. 630)	528	<i>Cratægus</i> , 339, 340	
<i>Cina</i> , 64, 75		<i>Cristaria</i> , ii. 553)	453
<i>Ciræa</i> , i. 28)	21	<i>Critonia</i> , 512	
<i>Cirsium</i> , 506		<i>Crotalaria</i> , ii. 564)	469
<i>Cissampelos</i> , 252		<i>Crotalaria</i> , 307, 308	
<i>Cissus</i> , i. 210)	170	<i>Croton</i> , ii. 686)	603
<i>Cistus</i> , 363		<i>Croton</i> , 608	
<i>Clarckia</i> , i. 337)	260	<i>Crotonopsis</i> , i. 265)	206
<i>Claytonia</i> , i. 215)	175	<i>Cteisium</i> , 657	
<i>Clematis</i> , ii. 456)	384	<i>Cucubalus</i> , i. 386)	315
<i>Cleome</i> , ii. 536)	441	<i>Cucubalus</i> , 316	
<i>Clethra</i> , i. 367)	301	<i>Cunila</i> , ii. 475)	406
<i>Cliftonia</i> , 302		<i>Cunila</i> , 414	
<i>Clinopodium</i> , ii. 486)	410	<i>Cuphea</i> , i. 407)	335
<i>Clinopodium</i> , 408, 409		<i>Cupressus</i> , ii. 708)	645
<i>Clitoria</i> , ii. 587)	487	<i>Ci</i> , i. 149)	116
<i>Cnicus</i> , ii. 607)	506	<i>Cj</i> , ii. 467)	398
<i>Cochlearia</i> , 435		<i>Cymbidium</i> , ii. 676)	592
<i>Collinsonia</i> , i. 27)	20	<i>Cymbidium</i> , 593	
<i>Colonea</i> , 572		<i>Cynanchum</i> , 179	
<i>Comarum</i> , i. 420)	356	<i>Cynoctonum</i> , 139	
<i>Commelina</i> , i. 40)	31	<i>Cynodon</i> , i. 80)	70
<i>Commelina</i> , 32		<i>Cynoglossum</i> , i. 163)	133
<i>Comptonia</i> , ii. 703)	635	<i>Cynosurus</i> , 87	
<i>Conium</i> , i. 248)	195	<i>Cyperus</i> , i. 56)	50
<i>Conostylis</i> , i. 292)	224	<i>Cyperus</i> , 53	
<i>Convallaria</i> , i. 304)	232	<i>Cypripedium</i> , ii. 678)	594
<i>Convallaria</i> , 233, 234, 235		<i>Cypripedium</i> , 593	
		<i>Cyrilla</i> , i. 211)	170

*Dactylis*.  
*Dactylis*.  
*Dalea*.  
*Dalea*.  
*Dalibarda*.  
*Datisca*.  
*Datura*.  
*Daucus*.  
*Daucus*.  
*Decodon*.  
*Decumaria*.  
*Delphinium*.  
*Demidofia*.  
*Dentaria*.  
*Dianthera*.  
*Dianthus*.  
*Diapensia*.  
*Dichondra*.  
*Dichromer*.  
*Dicksonia*.  
*Diervilla*.  
*Digitaria*.  
*Digitaria*.  
*Dilatris*.  
*Dilepyrum*.  
*Diodia*.  
*Dionæa*.  
*Dioscorea*.  
*Diospyros*.  
*Diotis*.  
*Diphylleja*.  
*Dipsacus*.  
*Dirca*.  
*Dodecathe*.  
*Dolichos*.  
*Dolichos*.  
*Donia*.  
*Doronicum*.  
*Draba*.  
*Dracæna*.  
*Bracoceph*.  
*Dracontium*.  
*Drosera*.  
*Dryas*.  
*Dryas*.

84) 143	<i>Dactylis.</i>	i. 97)	84	<i>Dulichium.</i>	i. 57)	53
145, 146	<i>Dactylis.</i>		59	<i>Dyssodia</i>		559
24) 523	<i>Dalea.</i>	ii. 573)	474			
544, 556	<i>Dalea.</i>		461, 512	<i>Echites.</i>	i. 221)	178
62) 390	<i>Dalibarda.</i>	i. 416)	350	<i>Echium.</i>	i. 156)	180
54) 567	<i>Datisca.</i>	ii. 442)	370	<i>Eclipta.</i>	ii. 644)	561
565, 566	<i>Datura.</i>	i. 179)	141	<i>Elæagrus.</i>	i. 145)	114
8) 4	<i>Daucus.</i>	i. 237)	191	<i>Elephantopus.</i>	ii. 668)	582
61	<i>Daucus.</i>		194	<i>Eleusine.</i>	i. 102)	87
37) 107	<i>Decodon.</i>		384	<i>Ellisia.</i>	i. 178)	141
324) 435	<i>Decumaria.</i>	i. 401)	328	<i>Elodea.</i>	ii. 430)	379
558) 462	<i>Delphinium.</i>	ii. 444)	371	<i>Elodea.</i>		33
701) 634	<i>Demidoffia.</i>		187	<i>Elymus.</i>	i. 106)	89
239, 240	<i>Dentaria.</i>	ii. 533)	438	<i>Elytraria.</i>	i. 20)	13
562	<i>Dianthera.</i>		13	<i>Empetrum.</i>	i. 116)	93
410) 336	<i>Dianthus.</i>	i. 384)	314	<i>Epigæa.</i>	i. 360)	297
339, 340	<i>Diapensia.</i>	i. 187)	147	<i>Epilobium.</i>	i. 335)	259
553) 453	<i>Dichondra.</i>	i. 229)	187	<i>Epipactis.</i>	ii. 674)	591
512	<i>Dichromena.</i>	i. 52)	47	<i>Equisetum.</i>	ii. 713)	651
564) 469	<i>Dicksonia.</i>	ii. 735)	671	<i>Erianthus.</i>		73, 74
307, 308	<i>Diervilla.</i>	i. 202)	162	<i>Erica.</i>		264
686) 603	<i>Digitaria.</i>	i. 79)	69	<i>Erigeron.</i>	ii. 634)	532
608	<i>Digitaria.</i>		70	<i>Erigeron.</i>		528
265) 206	<i>Dilatris.</i>	i. 37)	30	<i>Eriocaulon.</i>	i. 113)	91
657	<i>Dilepyrum.</i>		61	<i>Eriogonum.</i>	i. 353)	277
386) 315	<i>Diodia.</i>	i. 133)	105	<i>Eriophorum.</i>	i. 60)	57
316	<i>Dionæa.</i>	i. 370)	304	<i>Eriophorum.</i>		57
475) 406	<i>Dioscorea.</i>	i. 328)	251	<i>Ervum.</i>		487
414	<i>Diospyros.</i>	i. 341)	265	<i>Eryngium.</i>	i. 233)	189
407) 335	<i>Diotis.</i>	ii. 683)	602	<i>Erysimum.</i>	ii. 527)	436
708) 645	<i>Diphylleja.</i>	i. 281)	218	<i>Erythrina.</i>	ii. 562)	467
149) 116	<i>Dipsacus.</i>	i. 117)	96	<i>Erythronium.</i>	i. 301)	230
467) 398	<i>Dirca.</i>	i. 343)	268	<i>Erythrorhiza.</i>		446
676) 592	<i>Dodecatheon.</i>	i. 168)	136	<i>Ethulia.</i>		518
593	<i>Dolichos.</i>	ii. 566)	470	<i>Eupatorium.</i>	ii. 612)	512
179	<i>Dolichos.</i>		469, 487	<i>Eupatorium.</i>		512, 517
139	<i>Donia.</i>	ii. 637)	559	<i>Euphorbia.</i>	ii. 689)	605
80) 70	<i>Doronicum.</i>		528	<i>Euphrasia.</i>	ii. 516)	430
163) 133	<i>Draba.</i>	ii. 520)	433	<i>Evolvulus.</i>	i. 230)	187
87	<i>Dracæna.</i>		233	<i>Evonymus.</i>	i. 208)	168
56) 50	<i>Dracocephalum.</i>	ii. 488)	411	<i>Exacum.</i>	i. 125)	100
53	<i>Dracontium.</i>		398			
678) 594	<i>Drosera.</i>	i. 273)	210	<i>Fagus.</i>	ii. 698)	624
593	<i>Dryas.</i>	i. 417)	350	<i>Fagus.</i>		624
211) 170	<i>Dryas.</i>		350, 352	<i>Fedia.</i>	i. 33)	28

<i>Ferula.</i>	i. 240)	192	<i>Gonolobium.</i>	i. 222)	178
<i>Festuca.</i>	i. 96)	83	<i>Genolobus.</i>		178
<i>Filago.</i>		526	<i>Gordonia.</i>	ii. 550)	461
<i>Fimbristylis.</i>	i. 55)	49	<i>Gratiola.</i>	i. 19)	12
<i>Floerkea.</i>		239	<i>Gratiola.</i>	418,	419
<i>Forsythia.</i>		328	<i>Guilandina.</i>		304
<i>Fothergilla.</i>	i. 408)	335	<i>Gymnandra.</i>		430
<i>Fragaria.</i>	i. 421)	357	<i>Gymnocladus.</i>	i. 372)	304
<i>Franklinia.</i>		451			
<i>Frasera.</i>	i. 127)	101	<i>Halesia.</i>	ii. 547)	449
<i>Fraxinus.</i>	i. 15)	8	<i>Hamamelis.</i>	i. 148)	116
<i>Fritillaria.</i>	i. 300)	230	<i>Hamiltonia.</i>	i. 220)	178
<i>Fuirena.</i>	i. 62)	58	<i>Hedeoma.</i>	ii. 493)	414
<i>Fuirena.</i>		58	<i>Heirotis.</i>	102,	107
<i>Fumaria.</i>	ii. 559)	463	<i>Hedypnois.</i>		497
<i>Fumaria.</i>	462,	463	<i>Hedysarum.</i>	ii. 581)	481
			<i>Hedysarum.</i>	480,	481,
<i>Galactia.</i>	ii. 586)	486		484,	485,
<i>Galaridia.</i>	ii. 656)	572	<i>Helenium.</i>	ii. 640)	560
<i>Gailarda.</i>		572	<i>Helianthemum.</i>	ii. 425)	363
<i>Galax.</i>	ii. 544)	446	<i>Helianthus.</i>	ii. 655)	570
<i>Galega.</i>		489	<i>Helianthus.</i>		563
<i>Galeopsis.</i>	ii. 479)	407	<i>Heliopsis.</i>	ii. 648)	563
<i>Galium.</i>	i. 131)	102	<i>Heliotropium.</i>	i. 157)	130
<i>Gaultheria.</i>	i. 356)	283	<i>Helleborus.</i>		390
<i>Gaura.</i>	i. 336)	260	<i>Helonias.</i>	i. 320)	242
<i>Gelseminum.</i>	i. 226)	184	<i>Helonias.</i>		241
<i>Gentiana.</i>	i. 227)	185	<i>Hepatica.</i>	ii. 464)	391
<i>Geranium.</i>	ii. 546)	448	<i>Heracleum.</i>	i. 241)	192
<i>Gerardia.</i>	ii. 507)	422	<i>Heritiera.</i>		31
<i>Geum.</i>	i. 418)	351	<i>Herpestis.</i>	ii. 500)	418
<i>Gilia.</i>		147	<i>Hesperis.</i>	ii. 529)	436
<i>Gillenia.</i>		343	<i>Heteranthera.</i>	i. 42)	32
<i>Glandularia.</i>		416	<i>Heuchera.</i>	i. 231)	167
<i>Glaucium.</i>	ii. 430)	365	<i>Hibiscus.</i>	ii. 556)	455
<i>Glaux.</i>	i. 216)	176	<i>Hieracium.</i>	ii. 601)	502
<i>Glechoma.</i>	ii. 482)	408	<i>Hieracium.</i>		501
<i>Gleditschia.</i>	i. 285)	221	<i>Hippophaë.</i>	i. 146)	115
<i>Globifera.</i>		10	<i>Hippuris.</i>	i. 4)	3
<i>Glycine.</i>	ii. 585)	485	<i>Hoffmannia.</i>		655
<i>Glycine.</i>	470,	473,	<i>Holcus.</i>	i. 91)	78
<i>Glycirrhiza.</i>	ii. 579)	480	<i>Holcus.</i>		83
<i>Gnaphalium.</i>	ii. 625)	524	<i>Holosteum.</i>	i. 110)	90
<i>Gnaphalium.</i>		524	<i>Hookera.</i>		223
<i>Gomphrena.</i>		445,	<i>Hopea.</i>	ii. 549)	451

*Hordeum.*  
*Hottonia.*  
*Houstonia.*  
*Hudsonia.*  
*Humulus.*  
*Hydrangea.*  
*Hydrastis.*  
*Hydrocotyle.*  
*Hydroglossa.*  
*Hydrolea.*  
*Hydropeltis.*  
*Hydrophyllum.*  
*Hyoscyamus.*  
*Hyoseris.*  
*Hyoseris.*  
*Hymenocallis.*  
*Hymenocallis.*

*Hypericum.*  
*Hypericum.*

*Hypoxis.*  
*Hyptis.*  
*Hysopus.*

*Jatropha.*  
*Jeffersonia.*  
*Jlex.*  
*Jlex.*

*Illecebrum.*  
*Illicium.*  
*Impatiens.*  
*Indigofera.*  
*Inula.*

*Ipomoea.*  
*Ipomoea.*  
*Ipomopsis.*

*Iresine.*  
*Iris.*  
*Isanthus.*  
*Ischaemum.*  
*Isnardia.*  
*Isoetes.*  
*Itea.*  
*Itea.*

178	Hordeum.	i. 107)	89	Juglans.	ii. 705)	636
178	Hottonia.	i. 172)	138	Juncus.	i. 310)	235
451	Houstonia.	i. 134)	106	Juniperus.	ii. 710)	646
12	Hudsonia.	ii. 426)	364	Jussæa.	i. 371)	304
3, 419	Humulus.	i. 257)	169	Justicia.	i. 21)	13
304	Hydrangea.	i. 379)	309	Justicia.		13
430	Hydras'is.	ii. 459)	389	Iva.	ii. 665)	580
304	Hydrocotyle.	i. 234)	190	Ixia.	i. 35)	29
	Hydroglossum.	ii. 718)	656			
449	Hydrolea.	i. 228)	187	Kalmia.	i. 359)	295
116	Hydropeltis.		389	Knoxia.		107
178	Hydrophyllum.	i. 165)	134	Kochia.	i. 266)	206
414	Hyoscyamus.	i. 180)	141	Koeleria.	i. 99)	85
2, 107	Hyoseris.	ii. 603)	504	Krigia.	ii. 602)	504
497	Hyoseris.		504, 505	Kuhnia.	ii. 611)	512
481	Hymenopappus.	ii. 617)	519	Kuhnistera.		461
81,	Hymenophyllum.			Kyllingia.	i. 50)	46
5, 487		ii. 736)	671	Kyllingia.		58, 59
560	Hypericum.	ii. 449)	374			
363	Hypericum.	374, 379,		Lacathea.		451
570		380, 451		Lactuca.	ii. 599)	500
563	Hypoxis.	i. 291)	224	Lactuca.		502
563	Hyptis.	ii. 484)	408	Lagotis.		430
130	Hyssopus.	ii. 476)	406	Lamium.	ii. 478)	406
390				Larix.		645
242	Jatropha.	ii. 685)	603	Lathyrus.	ii. 568)	471
241	Jeffersonia.	i. 344)	268	Laurus.	i. 352)	275
391	Ilex.	i. 152)	117	Lechea.	i. 112)	90
192	Ilex.		221	Ledum.	i. 365)	300
31	Illecebrum.	ii. 543)	445	Ledum.		301
418	Illicium.	ii. 451)	380	Leersia.	i. 71)	62
436	Impatiens.	i. 213)	171	Lemna.	i. 31)	22
32	Indigofera.	ii. 589)	488	Leontice.		218
187	Inula.	ii. 633)	531	Leontodon.	ii. 596)	497
455	Ipomœa.	i. 185)	145	Leontodon.		497
502	Ipomœa.		147	Leonurus.	ii. 481)	408
501	Ipomopsis.		147	Lepidium.	ii. 525)	435
115	Iresine.	ii. 542)	445	Lepidium.		435
3	Iris.	i. 36)	29	Leptanthus.		32
655	Isanthus.	ii. 474)	405	Lespedeza.	ii. 580)	480
78	Ischæmum.		88	Lewisia.	ii. 437)	368
82	Isnardia.		111	Leysera.		573
90	Isoetes.	ii. 737)	671	Liatris.	ii. 609)	507
223	Itea.	i. 212)	171	Ligusticum.	i. 242)	193
451	Itea.		171	Ligustrum.	i. 11)	7

<i>Lilium.</i>	i. 299)	228	<i>Matuschkea.</i>	352
<i>Lilium.</i>		230	<i>Mayaca.</i>	32
<i>Limnæta.</i>	i. 65)	59	<i>Medeola.</i>	i. 321) 244
<i>Limodorum.</i>	589, 592, 593		<i>Medicago.</i>	ii. 592) 490
<i>Lindernia.</i>	ii. 501)	419	<i>Medicago.</i>	480
<i>Linnaea.</i>	ii. 496)	418	<i>Melampyrum.</i>	ii. 517) 430
<i>Linum.</i>	i. 272)	210	<i>Melananthera.</i>	ii. 618) 519
<i>Lippia.</i>	417, 418		<i>Melanthium.</i>	i. 317) 240
<i>Liquidambar.</i>	ii. 702)	635	<i>Melanthium.</i>	242, 243, 246
<i>Liquidambar.</i>		635	<i>Melica.</i>	i. 90) 77
<i>Liriodendron.</i>	ii. 453)	382	<i>Melilotus.</i>	ii. 575) 477
<i>Lithospermum.</i>	i. 159)	131	<i>Melissa.</i>	413
<i>Lithospermum.</i>		132	<i>Melothria.</i>	ii. 538) 444
<i>Lobelia.</i>	ii. 545)	446	<i>Menispermum.</i>	ii. 443) 370
<i>Lonicera.</i>	160, 161, 162		<i>Menispermum.</i>	252
<i>Lotus.</i>	ii. 591)	489	<i>Mentha.</i>	ii. 473) 405
<i>Ludwigia.</i>	i. 138)	110	<i>Menyanthes.</i>	i. 173) 139
<i>Lupinaster.</i>	ii. 577)	479	<i>Menyanthes.</i>	139
<i>Lupinus.</i>	ii. 563)	467	<i>Menziesia.</i>	i. 340) 264
<i>Luzula.</i>		238	<i>Mespilus.</i>	337, 338,
<i>Lychnis.</i>	i. 394)	321		339, 340
<i>Lycium.</i>	i. 119)	97	<i>Micranthemum.</i>	i. 17) 10
<i>Lycopodium.</i>	ii. 714)	652	<i>Micropetalum.</i>	i. 390) 319
<i>Lycopodium.</i>		655	<i>Miegia.</i>	i. 64) 59
<i>Lycopsis.</i>	i. 162)	132	<i>Mikania.</i>	ii. 613) 517
<i>Lycopus.</i>	i. 24)	16	<i>Milium.</i>	i. 72) 62
<i>Lygodium.</i>		657	<i>Milium.</i>	71
<i>Lysimachia.</i>	i. 167)	135	<i>Mimosa.</i>	305
<i>Lythrum.</i>	i. 406)	334	<i>Mimulus.</i>	ii. 509) 426
<i>Lythrum.</i>		335	<i>Mitchella.</i>	i. 128) 101
			<i>Mitella.</i>	i. 382) 313
<i>Magnolia.</i>	ii. 452)	380	<i>Mollugo.</i>	i. 114) 92
<i>Majanthemum.</i>		233	<i>Momordica.</i>	ii. 539) 444
<i>Malachodendrum.</i>		452	<i>Monarda.</i>	i. 25) 16
<i>Malaxis.</i>	ii. 675)	592	<i>Monniera.</i>	418
<i>Malope.</i>	ii. 555)	455	<i>Monotropa.</i>	i. 369) 303
<i>Malva.</i>	ii. 554)	454.	<i>Morus.</i>	ii. 706) 639
<i>Malva.</i>		454	<i>Muhlenbergia.</i>	i. 69) 61
<i>Mapania.</i>	i. 51)	47	<i>Myagrurn.</i>	ii. 521) 434
<i>Mariscus.</i>	i. 63)	58	<i>Mylocarium.</i>	i. 368) 302
<i>Marrubium.</i>	ii. 483)	408	<i>Myosotis.</i>	i. 164) 133
<i>Marshallia.</i>	ii. 619)	519	<i>Myrica.</i>	ii. 693) 620
<i>Marsilea.</i>		672	<i>Myriophyllum.</i>	i. 351) 274
<i>Martynia.</i>	ii. 512)	428	<i>Myrrhis.</i>	196
<i>Matricaria.</i>		561		

*Najas.*  
*Napaea.*  
*Narthec.*  
*Narthec.*  
*Nectris.*  
*Nelumb.*  
*Neottia.*  
*Nepeta.*  
*Nepeta.*  
*Nephroc.*  
  
*Nicandra.*  
*Nicotian.*  
*Nolina.*  
*Nuphar.*  
*Nympha.*  
*Nympha.*  
*Nyssa.*  
  
*Obolaria.*  
*Oeranth.*  
*Oenother.*  
*Oldenlan.*  
*Olea.*  
*Onoclea.*  
*Onoclea.*  
*Onosmod.*  
*Ophioglo.*  
*Ophiorrh.*  
*Ophrys.*  
*Orchidoc.*  
*Orchis.*  
*Origanum.*  
*Origanum.*  
*Ornithog.*  
*Ornithog.*  
*Ornus.*  
*Orobanch.*  
*Orontium.*  
*Oryzopsis.*  
*Osmunda.*  
*Osmunda.*  
*Ostrya.*  
*Oxalis.*  
*Oxycoctu.*

332	<i>Najas.</i>	ii. 682)	602	<i>Oxytropis.</i>	ii. 571)	473
32	<i>Napaea.</i>		453			
244	<i>Narthecium.</i>	i. 296)	227	<i>Pachysandra.</i>	i. 151)	117
490	<i>Narthecium.</i>		246	<i>Panax.</i>	i. 235)	191
480	<i>Nectria.</i>	i. 312)	239	<i>Pancratium.</i>	i. 286)	221
430	<i>Nelumbium.</i>		398	<i>Panicum.</i>	i. 78)	66
519	<i>Neottia.</i>	ii. 672)	589	<i>Panicum.</i>		69, 70
240	<i>Nepeta.</i>	ii. 477)	406	<i>Papaver.</i>	ii. 431)	365
246	<i>Nepeta.</i>		409	<i>Parietaria.</i>	i. 142)	114
77	<i>Nephrodium.</i>	659, 661,		<i>Parnassia.</i>	i. 269)	208
477		663, 664, 665,	670	<i>Parthenium.</i>	ii. 664)	580
413	<i>Nicandra.</i>	i. 194)	158	<i>Paspalum.</i>	i. 81)	70
444	<i>Nicotiana.</i>	i. 181)	141	<i>Paspalum.</i>		69, 70
370	<i>Nolina.</i>	i. 315)	240	<i>Passiflora.</i>	ii. 541)	444
252	<i>Nuphar.</i>	ii. 439)	369	<i>Pastinaca.</i>	i. 250)	196
405	<i>Nymphæa.</i>	ii. 438)	368	<i>Pedicularis.</i>	ii. 508)	424
139	<i>Nymphæa.</i>	369, 370,	398	<i>Penthorum.</i>	i. 396)	323
139	<i>Nyssa.</i>	i. 219)	177	<i>Pentstemon.</i>	ii. 511)	427
264				<i>Peplis.</i>	i. 311)	238
38,	<i>Obolaria.</i>	ii. 518)	431	<i>Perdicium.</i>		577
340	<i>Oer. anthe.</i>	i. 245)	194	<i>Persoonia.</i>		519, 520
10	<i>Oenothera.</i>	i. 338)	261	<i>Petalostemum.</i>	ii. 557)	461
319	<i>Oldenlandia.</i>	i. 129)	102	<i>Phaca.</i>		485
59	<i>Olea.</i>	i. 12)	7	<i>Phacelia.</i>	i. 177)	140
517	<i>Onoclea.</i>	ii. 725)	665	<i>Phæthusia.</i>	ii. 643)	561
62	<i>Onoclea.</i>		666, 669	<i>Phalangium.</i>	i. 295)	226
71	<i>Onosmodium.</i>	i. 161)	132	<i>Phalangium.</i>		240
305	<i>Ophioglossum.</i>	ii. 716)	655	<i>Phalaris.</i>	i. 75)	65
426	<i>Ophiorrhiza.</i>	i. 176)	139	<i>Phaseolus.</i>	ii. 505)	469
101	<i>Ophrys.</i>	589, 591, 592,	593	<i>Pbellandrium.</i>	i. 246)	195
313	<i>Orchidocarpum.</i>		383	<i>Philadelphus.</i>	i. 402)	329
92	<i>Orchis.</i>	ii. 671)	585	<i>Phleum.</i>	i. 76)	65
444	<i>Origanum.</i>	ii. 487)	411	<i>Phlox.</i>	i. 188)	148
16	<i>Origanum.</i>		409, 410	<i>Phryma.</i>	ii. 496)	415
418	<i>Ornithogalum.</i>	ii. 297)	227	<i>Phyllanthus.</i>	ii. 537)	443
303	<i>Ornithogalum.</i>		222	<i>Phyllodoce.</i>		264
639	<i>Ornus.</i>	i. 14)	8	<i>Physalis.</i>	i. 193)	157
61	<i>Orobanche.</i>	ii. 519)	431	<i>Phytolacca.</i>	i. 398)	324
434	<i>Orontium.</i>	i. 308)	235	<i>Pinguicula.</i>	i. 22)	14
302	<i>Oryzopsis.</i>	i. 67)	60	<i>Pinckneya.</i>	i. 196)	158
133	<i>Osmunda.</i>	ii. 720)	657	<i>Pinus.</i>	ii. 707)	639
620	<i>Osmunda.</i>	655, 669,	670	<i>Pistia.</i>	i. 345)	268
274	<i>Ostrya.</i>	ii. 697)	623	<i>Pisum.</i>	ii. 567)	470
196	<i>Oxalis.</i>	i. 395)	322	<i>Planera.</i>	i. 147)	115
	<i>Oxycoccus.</i>	i. 339)	263	<i>Plantago.</i>	i. 122)	98

<i>Platanus.</i>	ii. 704)	638	<i>Pteris.</i>		669
<i>Pleca.</i>	i. 354)	278	<i>Pitronia.</i>		509
<i>Pleuranthus.</i>		53	<i>Pulmonaria.</i>	i. 158)	130
<i>Poa.</i>	i. 93)	76	<i>Pycnanthemum.</i>		
<i>Poa.</i>		85		ii. 485)	409
<i>Podalyria.</i>	i. 376)	307	<i>Pyrethrum.</i>	ii. 628)	527
<i>Podophyllum.</i>	ii. 434)	366	<i>Pyrola.</i>	i. 363)	299
<i>Podophyllum.</i>		268	<i>Pyrola.</i>		300
<i>Podostemum.</i>	i. 5)	3	<i>Pyrularia.</i>		178
<i>Poireria.</i>		106	<i>Pyrus.</i>	i. 411)	339
<i>Polemonium.</i>	i. 189)	151	<i>Pyxidanthera.</i>		148
<i>Polemonium.</i>		140, 147			
<i>Polycarpon.</i>	i. 111)	90	<i>Quercus.</i>	ii. 700)	625
<i>Polygala.</i>	ii. 560)	464	<i>Queria.</i>		176
<i>Polygonatum.</i>	i. 306)	234			
<i>Polygonella.</i>		272	<i>Rafnia.</i>		307
<i>Polygonum.</i>	i. 347)	369	<i>Rajania.</i>		273
<i>Polymnia.</i>	ii. 661)	579	<i>Ranunculus.</i>	ii. 465)	391
<i>Polymnia.</i>		563	<i>Ranunculus.</i>		390
<i>Polypodium.</i>	ii. 722)	658	<i>Raphis.</i>		239
<i>Polypodium.</i>	660, 661,		<i>Rhamnus.</i>	i. 205)	166
	663, 664, 671		<i>Rhamnus.</i>		188
<i>Polypremum.</i>	i. 123)	99	<i>Rhexia.</i>	i. 334)	257
<i>Polystichum.</i>	660, 661,	669	<i>Rhinanthus.</i>	ii. 514)	429
<i>Pontederia.</i>	i. 290)	223	<i>Rhinanthus.</i>		423
<i>Pontederia.</i>		38	<i>Rhododendron.</i>	i. 361)	297
<i>Populus.</i>	ii. 692)	613	<i>Rhodora.</i>	i. 362)	298
<i>Porcelia.</i>	ii. 454)	385	<i>Rhus.</i>	i. 262)	204
<i>Portulacca.</i>	ii. 428)	365	<i>Rhynchospora.</i>	i. 54)	48
<i>Potamogeton.</i>	i. 154)	120	<i>Ribes.</i>	i. 204)	163
<i>Potamogeton.</i>		274	<i>Ricinus.</i>	ii. 684)	602
<i>Potentilla.</i>	i. 419)	353	<i>Robinia.</i>	ii. 588)	487
<i>Pothos.</i>	ii. 408)	398	<i>Robinia.</i>		485
<i>Prasium.</i>		411	<i>Rosa.</i>	i. 414)	344
<i>Prenanthes.</i>	ii. 598)	498	<i>Rothia.</i>		519
<i>Primula.</i>	i. 169)	137	<i>Rottboellia.</i>	i. 104)	88
<i>Prinos.</i>	i. 284)	220	<i>Rubia.</i>	i. 130)	102
<i>Proserpinaca.</i>	i. 115)	92	<i>Rubus.</i>	i. 415)	346
<i>Prunella.</i>	ii. 489)	411	<i>Rubus.</i>		250
<i>Prunus.</i>	i. 404)	329	<i>Rudbeckia.</i>	ii. 657)	573
<i>Psilotum.</i>		655	<i>Rudbeckia.</i>	560, 563,	572
<i>Psoralea.</i>	ii. 574)	475	<i>Ruellia.</i>	ii. 504)	420
<i>Psoralea.</i>		474	<i>Rumex.</i>	i. 326)	247
<i>Ptelea.</i>	i. 136)	107	<i>Rupia.</i>	i. 155)	121
<i>Pteris.</i>	ii. 729)	668			

*Sabal.*  
*Sabbatia.*  
*Sacchar.*  
*Sagina.*  
*Sagina.*  
*Sagittaria.*  
*Salicornia.*  
*Salix.*  
*Salsola.*  
*Salsola.*  
*Salvia.*  
*Salvinia.*  
*Sambucus.*  
*Samolus.*  
*Sanguin.*  
*Sanguis.*  
*Sanicula.*  
*Santolina.*  
*Sapindus.*  
*Saponaria.*  
*Sarracenia.*  
*Sarothrum.*  
*Satureja.*  
*Satyrium.*  
*Saururus.*  
*Saxifraga.*  
*Scandix.*  
*Scheuchzeria.*  
*Schisandra.*  
*Schizæa.*  
*Schœnus.*  
*Schœnus.*  
  
*Schrankia.*  
*Scirpus.*  
*Scirpus.*  
  
*Schwalbea.*  
*Scleria.*  
*Scleranthus.*  
*Scolopen.*  
*Scorzone.*  
*Scrophul.*  
*Scutellari.*  
*Secale.*

669	<i>Sabal.</i>	i. 313	239	<i>Sedum.</i>	i. 397	323
509	<i>Sabbatia.</i>	i. 171	137	<i>Selinum.</i>	i. 239	192
130	<i>Saccharum.</i>	i. 84	73	<i>Senecio.</i>	ii. 631	528
	<i>Sagina.</i>	i. 153	119	<i>Senecio.</i>		528
409	<i>Sagina.</i>		100	<i>Serpicula.</i>	i. 43	33
527	<i>Sagittaria.</i>	ii. 466	393	<i>Serratula.</i>	506, 507,	
299	<i>Salicornia.</i>	i. 3	2		508, 509,	511
300	<i>Salix.</i>	ii. 691	608	<i>Sesbania.</i>	ii. 584	485
178	<i>Salsola.</i>	i. 253	197	<i>Seseli.</i>	i. 252	197
339	<i>Salsola.</i>		206	<i>Sibbaldia.</i>	i. 274	211
148	<i>Salvia.</i>	i. 26	19	<i>Sicyos.</i>	ii. 540	444
	<i>Salvinia.</i>	ii. 738	672	<i>Sicyos.</i>		444
625	<i>Sambucus.</i>	i. 261	203	<i>Sida.</i>	ii. 552	452
176	<i>Samolus.</i>	i. 195	158	<i>Sideroxylum.</i>		155
	<i>Sanguinaria.</i>	ii. 432	366	<i>Siegesbeckia.</i>	ii. 642	561
307	<i>Sanguisorba.</i>	i. 150	116	<i>Siegesbeckia.</i>		565
273	<i>Sanicula.</i>	i. 236	191	<i>Silene.</i>	i. 387	315
391	<i>Santolina.</i>	ii. 620	520	<i>Silene.</i>		315
390	<i>Sapindus.</i>	i. 350	274	<i>Silphium.</i>	ii. 660	577
239	<i>Saponaria.</i>	i. 383	314	<i>Silphium.</i>		563
166	<i>Sarracenia.</i>	ii. 436	367	<i>Sison.</i>	i. 244 b.)	194
188	<i>Sarothra.</i>		378	<i>Sison.</i>	190,	193
257	<i>Satureja.</i>		410	<i>Sisymbrium.</i>	ii. 535	440
429	<i>Satyrion.</i>		587, 589	<i>Sisyrinchium.</i>	i. 38	31
423	<i>Saururus.</i>	i. 329	252	<i>Sium.</i>	i. 244	194
297	<i>Saxifraga.</i>	i. 380	310	<i>Smilacina.</i>	i. 305	232
298	<i>Scandix.</i>	195,	196	<i>Smi ax.</i>	i. 327	249
204	<i>Scheuchzeria.</i>	i. 325	247	<i>Smyrniun.</i>	i. 251	196
48	<i>Schisandra.</i>	i. 277	212	<i>Solanandra.</i>		446
163	<i>Schizæa.</i>	ii. 719	657	<i>Solanum.</i>	i. 192	156
602	<i>Schoenus.</i>	i. 53	47	<i>Solidago.</i>	ii. 635	635
487	<i>Schoenus.</i>	47, 48, 49,		<i>Sonchus.</i>	ii. 600	501
485		54, 57, 58		<i>Sophora.</i>	307,	308
344	<i>Schrankia.</i>	i. 374	305	<i>Sorbus.</i>	i. 412	341
519	<i>Scirpus.</i>	i. 58	54	<i>Sorghum.</i>	i. 92	78
88	<i>Scirpus.</i>	47, 49, 51, 54,		<i>Sparganium.</i>	i. 45	33
102		57, 59		<i>Sparganophorus.</i>	ii. 616	518
346	<i>Schwalbea.</i>	ii. 513	428	<i>Spergula.</i>	i. 391	320
250	<i>Scleria.</i>	i. 48	45	<i>Spermacoce.</i>	i. 132	105
573	<i>Scleranthus.</i>	i. 385	315	<i>Spergulastrum.</i>		319
572	<i>Scolopendrium.</i>	ii. 728	667	<i>Spigelia.</i>	i. 175	139
420	<i>Scorzonera.</i>	ii. 595	497	<i>Spilanthus.</i>		562
247	<i>Scrophularia.</i>	ii. 502	419	<i>Spiræa.</i>	i. 413	341
121	<i>Scutellaria.</i>	ii. 490	412	<i>Stachys.</i>	ii. 480	407
	<i>Secale.</i>	i. 108	90	<i>Stachelina.</i>		509

<i>Staphylea.</i>	i. 263)	206	<i>Tillandsia.</i>	i. 279)	217
<i>Statice.</i>	i. 275)	212	<i>Tofieldia.</i>	i. 323)	240
<i>Stellaria.</i>	i. 388)	317	<i>Trachynotia.</i>		59
<i>Stellaria.</i>		317	<i>Tradescantia.</i>	i. 280)	218
<i>Stewartia.</i>		452	<i>Tragia.</i>	ii. 688)	604
<i>Stillingia.</i>	ii. 690)	608	<i>Tragopogon.</i>		505
<i>Stipa.</i>	i. 83)	72	<i>Trattinickia.</i>		519
<i>Stipulicida.</i>		90	<i>Trichodium.</i>	i. 70)	61
<i>Stokesia.</i>	ii. 603)	505	<i>Trichomanes.</i>		671
<i>Streptopus.</i>	i. 303)	232	<i>Trichophorum.</i>	i. 59)	57
<i>Struthiopteris.</i>	ii. 726)	666	<i>Trichophorum.</i>		57
<i>Stuartia.</i>	ii. 551)	451	<i>Trichostema.</i>	ii. 494)	414
<i>Stylosanthes.</i>	ii. 578)	480	<i>Trientalis.</i>	i. 332)	254
<i>Styrax.</i>	ii. 548)	450	<i>Trifolium.</i>	ii. 576)	477
<i>Sueda.</i>		197	<i>Trifolium.</i>	475, 480,	486
<i>Swertia.</i>	i. 126)	100	<i>Triglochin.</i>	i. 324)	247
<i>Swertia.</i>		138	<i>Trillium.</i>	i. 322)	244
<i>Syena.</i>	i. 41)	32	<i>Triosteum.</i>	i. 203)	162
<i>Symphoria.</i>	i. 201)	162	<i>Tripsacum.</i>	i. 105)	88
<i>Symplocos.</i>		451	<i>Tripterella.</i>	i. 34)	28
<i>Syntherisma.</i>		69, 70	<i>Trisetum.</i>	i. 87)	76
			<i>Triticum.</i>	i. 109)	90
<i>Tabernemontana.</i>		184	<i>Trollius.</i>	ii. 463)	391
<i>Tagetes.</i>		559	<i>Troximum.</i>	ii. 604)	505
<i>Talinum.</i>	ii. 427)	365	<i>Tubiflora.</i>		13
<i>Tanacetum.</i>	ii. 622)	522	<i>Turritis.</i>	ii. 531)	438
<i>Taxus.</i>	ii. 711)	647	<i>Turnera.</i>	i. 264)	206
<i>Tecoma.</i>		420	<i>Tussilago.</i>	ii. 632)	531
<i>Tephrosia.</i>	ii. 590)	489	<i>Tussilago.</i>		577
<i>Tetragonotheca.</i>	ii. 647)	563	<i>Typha.</i>	i. 46)	34
<i>Teucrium.</i>	ii. 472)	405			
<i>Teucrium.</i>		404	<i>Ulmus.</i>	i. 258)	199
<i>Thalia.</i>	ii. 669)	584	<i>Uniola.</i>	i. 95)	82
<i>Thalictrum.</i>	ii. 458)	388	<i>Uniola.</i>		84
<i>Thalictrum.</i>		387	<i>Urtica.</i>	i. 141)	112
<i>Thapsia.</i>		196	<i>Utricularia.</i>	i. 23)	15
<i>Thesium.</i>	i. 218)	177	<i>Uvularia.</i>	i. 302)	231
<i>Thlaspi.</i>	ii. 526)	435	<i>Uvularia.</i>		232
<i>Thuya.</i>	ii. 709)	646			
<i>Thymbra.</i>		414	<i>Vaccinium.</i>	i. 357)	284
<i>Thymus.</i>	ii. 491)	413	<i>Vaccinium.</i>	263,	283
<i>Thymus.</i>	409, 413,	414	<i>Vaginata.</i>	i. 61)	58
<i>Tiarella.</i>	i. 381)	313	<i>Valantia.</i>		102
<i>Tigarea.</i>	i. 405)	333	<i>Valeriana.</i>	i. 32)	28
<i>Tilia.</i>	ii. 424)	362	<i>Valeriana.</i>		28

*Vallisen.*  
*Veratrum.*  
*Veratrum.*  
*Verbascu.*  
*Verbena.*  
*Verbena.*  
*Verbesin.*  
*Verbesin.*  
*Vernonia.*  
*Veronica.*  
*Viburnu.*  
*Vicia.*  
*Villarsia.*  
*Vincetox.*  
*Viola.*  
*Virgilia.*  
*Virgilia.*  
*Viscum.*  
*Vitis.*  
*Vitis.*  
*Vittaria.*  
*Vogelia.*

Wendland

Vallisneria.	ii. 681)	602	Woodia.	ii. 723)	660
Veratrum.	i. 319)	242	Woodwardia.	ii. 732)	669
Veratrum.		243	Wurmbea.		225
Verbascum.	i. 182)	142			
Verbena.	ii. 497)	413	Xanthium.	ii. 667)	581
Verbena.		417	Xylosteum.	i. 200)	161
Verbesina.	ii. 651)	564	Xyris.	i. 44)	33
Verbesina.		561			
Vernonia.	ii. 610)	511	Yucca.	i. 298)	227
Veronica.	i. 18)	10			
Viburnum.	i. 200)	201	Zamia.	ii. 712)	648
Vicia.	ii. 509)	471	Zannichellia.	i. 9)	4
Villarsia.	i. 174)	139	Zanthorrhiza.	i. 276)	212
Vincetoxycum.		179	Zanthoxylum.	i. 271)	209
Viola.	i. 214)	171	Zupania.	ii. 498)	417
Virgilia.	i. 378)	309	Zupania.		416
Virgilia.		572	Zea.	i. 49)	46
Viscum.	i. 143)	114	Zigadenus.	i. 318)	241
Vitis.	i. 209)	169	Zinnia.	ii. 652)	565
Vitis.		170	Zizania.	i. 68)	60
Vittaria.	ii. 730)	669	Zizyphus.	i. 232)	188
Vogelia.		29	Zornia.	ii. 582)	484
			Zostera.	i. 1)	2
Wendlandia.	i. 330)	252			

*Lycopus e*  
integ  
Will  
Icon. 1  
In low  
July,  
to six  
speci  
in Vi  
Shera  
real A

*Monarda r*  
subsin  
pilosus  
bii inf  
rugosi  
gulo g  
In Cana  
—Sep  
flower

*Valeriana a*  
lato-ov  
pinnat  
que ob  
Icon. Fl  
In swam  
in Her  
colour

*Fedia cheno*  
ferne d  
mentis

VOL. II.

## SUPPLEMENTUM.

---

*Lycopus exaltatus*.—*L.* foliis basi pinnatifido-serratis, laciniis integerrimis subserratisque, calycibus spinescentibus.—

*Willd. sp. pl.* 1. p. 121.

Icon. *Fl. græc.* t. 12.

In low shady woods : Virginia to Carolina ; rare. *W.*

July, Aug. *v. v.* ; *v. s.* in *Herb. Sherard.* From three to six feet high. This species I omitted for want of a specimen in my Herbarium, though I found it myself in Virginia ; but seeing a specimen of Catesby's in the Sherardian Herbarium, I was convinced of its being a real American species.

page 16.

*Monarda rugosa*.—*M.* glabriuscula ; capitulis mediocribus subsimplicibus, bracteis exterioribus ovatis undulatis pilosis, calycibus corollisque glabris, lac'nia media labii inferioris bidentata, foliis ovatis subcordatis acutis rugosis, nervis subtus petiolisque pilosis, caule acutangulo glabriusculo.—*Willd. sp. pl.* 1. p. 125.

In Canada and on the mountains of Virginia. *W.* July —Sept. *v. v.* in *Hort. Lambert.* About four feet high ; flowers small, white.

p. 17.

*Valeriana dioica*.—*V.* glabra ; foliis radicalibus subspathulato-ovatis integris longissime petiolatis, caulinis paucis pinnatifidis, laciniis lanceolatis integerrimis subdentatisque obtusiusculis.—*Willd. sp. pl.* 1. p. 176.

Icon. *Fl. dan.* 687.

In swamps at Hudson's Bay. *Tilden.* *W.* June. *v. s.* in *Herb. Sherard.* About a span high ; flowers flesh-coloured.

p. 28.

*Fedia chenopodifolia*.—*F.* dichotoma ; foliis ovatis acutis inferne dentatis, cymis nudis divaricato-dichotomis, filamentis longis.

*Valeriana virginiana*, pedis anserinæ folio. *Pet. H. S. in Herb. Sherard.*

In Virginia. ☉. *v. s. in Herb. Sherard.* About a span high; flowers the size of *V. officinalis*.

p. 72.

*Aristida pallens*.—A. culmo erecto simplici, foliis filiformibus, radicalibus culmo brevioribus, panícula pauciflora, pedicellis alternis brevibus bifloris, aristis elongatis.—*Cav. ic. 5. t. 468. f. 2.*

In Upper Louisiana. *Bradbury. 2. v. s. in Herb. Bradbury.* About a foot high; the awns more than three inches high.

p. 73.

*Stipa membranacea*.—S. foliis convolutis-filiformibus glabris, panícula laxa, pedicellis flexuosis, calycibus membranaceis 3-nerviis longe acuminatis, corollis calyce brevioribus sericeo-villosis, villis corollam superantibus, arista nuda recta calyce paulo longiore.

On the banks of the Missouri. *Bradbury. v. s. in Herb. Bradbury.* About eighteen inches high; flowers oval, covered with long silky hair.

p. 85.

*Bromus altissimus*.—B. panícula nutante, spiculis oblongis sub-6-floris, flosculis pubescentibus, valvula exteriore 3-nervata breviter aristata, foliis vaginisque glabris, culmo glabro altissimo.

On the banks of the Missouri. *2. July, Aug. v. v. in Hort. Lambert.* From five to eight feet high.

p. 88.

*Cynosurus secundus*.—C. glaber; foliis linearibus, spica elongata unilateralis, spiculis solitariis, defloratis reflexis, calycibus lineari-lanceolatis acutissimis.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Resembles *C. retroflexus* very much.

p. 97.

*Allionia linearis*.—A. caule erecto tereti, foliis linearibus subcarnosis, floribus racemosis, pedicellis aggregatis, staminibus longissime exsertis.

*Calyptomenia angustifolia. Fraser Catal. 1813.*

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*

*Allionia hirsuta*.—A. caule erecto angulato, foliis lanceolatis nervosis utrinque hirsutis, calycibus hirsutissimis sub-3-floris.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*

Plant

s

b

In

b

Pulmo

b

ol

In U

br

cu

Pulmon

lit

Ancl

In Ca

Fl

vir

Cynoglo

ob

C. gl

In U

Br

Lysimad

pet

qua

læ

L. car

In Ca

Flo

Calysteg

long

brev

ribu

In Car

larg

Calystegi

long

elon

aribu

Convov

flore

Her

*Plantago elongata*.—P. foliis linearibus integerrimis glabris, scapo spicis elongatis subimbricatis foliis longioribus, bracteis ovatis acutis margine membranaceis.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Resembles *P. pauciflora*.

p. 99.

*Pulmonaria lanceolata*.—P. glabra, erecta; foliis radicalibus longissime pedicellatis lanceolatis, caulinis lineari-oblongis, floribus subpaniculatis, calycibus abbreviatis. In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* Flowers small, resembling those of *P. paniculata*.

p. 131.

*Pulmonaria sibirica*.—P. calycibus abbreviatis, foliis radicalibus cordatis. *Willd. sp. pl. 1. p. 770.*

*Anchusa. Gmel. sib. 4. p. 75. no. 15. t. 39.*

In Canada. *Masson. v. s. in Herb. Lambert.* Flowers purple, in terminal corymbs; it resembles *P. virginica* very much.

*Cynoglossum glomeratum*.—C. hispidum; foliis spathulatis obtusis, floribus glomeratis.

*C. glomeratum. Fraser. catal. 1813.*

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.*

p. 133.

*Lysimachia lanceolata*.—L. glaberrima; foliis quaternis subpetiolatis lanceolatis promissa acuminatis, pedunculis quaternis multifloris, floribus summis racemosis, corollae laciniis ovatis acutis, caule erecto simplici.

*L. caroliniana quadrifolia, foliis acutis. Herb. Sherard.*

In Carolina. *Catesby. v. s. in Herb. Sherard.* Flowers the size of *L. vulgaris*.

p. 135.

*Calystegia Catesbeiana*.—C. volubilis, tomentosa; foliis oblongis sagittatis acuminatis, pedunculis unifloris folio brevioribus, bracteis ovalibus obtusis calyce longioribus.

In Carolina. *Catesby. v. s. in Herb. Sherard.* Flowers large, purple.

p. 143.

*Calystegia paradoxa*.—C. humifusa, tomentosa; foliis oblongis cordato-sagittatis acutis, pedunculis unifloris folio elongatis folio longioribus, bracteis a flore remotis linearibus, calycibus nudis glabris acuminatis.

*Convolvulus virginianus, læviter hirsutus et oblongis foliis, flore maximo albicante. Pluk. mant. 54. secundum Herb. Sherard.*

- In Virginia or Carolina. *v. s. in Herb. Sherard.* Flowers large, white.
- p. 143. *Convolvulus Sherardi*.—*C. humifusus*, pubescens; foliis ellipticis utrinque retusis mucronatis, floribus solitariis subsessilibus.  
*C. forte monococco* Banist. similis, sed vasculis sessilibus. *Herb. Sherard.*  
 In Carolina. *Catesby*. ☉. *v. s. in Herb. Sherard.* Resembles *C. trichosanthes* very much; I have only seen a specimen with fruit.
- p. 147. *Cantua parviflora*.—*C. pubescens*, diffusa; foliis pinnatifidis, laciniis linearibus elongatis, pedunculis solitariis unifloris terminalibus et oppositifoliis, corollis calyce vix longioribus.  
*Ipomopsis inconspicua*. *Smith exot bot.* 1. t. 14.  
 In North America. *Hoy*. ☉. June. *v. v. in Hortis.* Flowers small, pale blue. I insert this plant on the authority of Exotic Botany; but at the same time I doubt very much of its being a native of North America, and more strongly suspect it to come from Mexico.
- p. 148. *Phlox acuminata*.—*P. erecta*, pubescens; caule angulato, foliis ovato-lanceolatis acuminatis inferne angustatis subpetiolatis subtus pubescentibus, floralibus subcordatis, corymbis paniculatis, corollæ laciniis rotundatis, tubo pubescente, calycibus aristatis.  
*Phlox decussata*. *Lyon catal.* 1812.  
 On the mountains of Georgia and South Carolina. *Lyon*. ½. Aug. Sept. *v. v. in Hort. Lambert.* From four to five feet high; flowers very handsomely variegated, with dark and light shades of purple.
- p. 149. *Phlox nitida*.—*P. erecta*, glaberrima; caule tereti maculato lævigato, foliis ovato-oblongis subcarnosis supra nitidis atrovirentibus, subtus pallidis, corymbis fastigiatis, ramis inferioribus elongatis nudiusculis, corollæ laciniis lato-obovatis subretusis, dentibus calycinis lanceolatis mucronatis.  
*P. suffruticosa*. *Hortul.*  
 In South Carolina. *Fraser*. ½. Aug.—Oct. *v. v. in Hortis.* Near two feet high; flowers of a brilliant purple, which is deeper than in any other species. This species approaches near to *P. Carolina*; but besides its other characters it distinguishes itself very easily by flowering later and longer than that species.

*Solanum*  
tis  
ob  
for  
Icon  
The  
rai  
M  
tio

*Physalis*  
int  
cor  
Icon  
In S  
Sh

*Campar*  
thu  
lan  
cor  
C. am  
In Ne  
nec  
size  
kno  
by  
nor  
con

*Ribes la*  
den  
long  
gati  
hisp  
On th  
Ban  
size

*Ribes sp*  
foli  
sis  
sub  
glan  
ribu  
On th  
Ban

*Solanum heterandrum*.—*S. annuum* ; caule folisque aculeatis, foliis ovatis pinnatifidis utrinque hirsutis, laciniiis obtusiusculis, antheris declinatis distantibus, ima corniformi productiore, bacca calyce echinato inclusa.

Icon. *Tab. 7.*

The present description has been taken from a living plant raised by A. B. Lambert, Esq. from seeds received of Mr. Nuttall. The native specimen the former description was made from was very imperfect.

p. 156.

*Physalis somnifera*.—*P. perennis*, tomentosa ; foliis ovatis integerrimis, floribus confertis brevissime pedicellatis, corollis campanulatis. *Willd. sp. pl. 1. p. 1019.*

Icon. *Cav. ic. 2. t. 103.*

In South Carolina. *Catesby. 4. July. v. s. in Herb. Sherard.* Flowers small, brownish-yellow.

p. 157.

*Campanula nitida*.—*C. glaberrima* ; foliis radicalibus spatulato-oblongis coriaceis cartilagineo-crenatis, cauliniis lanceolato-oblongis subintegerrimis, floribus racemosis, corollis campanulato-rotatis.—*Willd. sp. pl. 1. p. 899.*

*C. americana minor*, flore cœruleo patulo. *Rob. ic.*

In North America. *4. July. v. s. in Herb. Lambert. nec non Sherard.* About a span high ; flowers middle size, fine blue. What part of America it is from is not known, but I suppose it to be Hudson's Bay. Misled by Michaux, this plant had been inserted as a synonym to *C. acuminata*, with which it has not the least connection.

p. 159.

*Ribes laxiflorum*.—*R. inerme* ; foliis cordatis 5-lobis incisodentatis glabris, petiolis gracilibus, racemis laxis erectis longitudine foliorum, bracteis subulatis, pedicellis elongatis, calycibus campanulato-tubulatis, baccis globosis hispidis.

On the north-west coast. *Menzies. 2. v. s. in Herb. Banks.* The flowers appear to be yellow, about the size of *R. floridum*.

p. 163.

*Ribes speciosum*.—*R. sub gemmis 3-plicato-aculeatum* ; foliis cuneato-subrotundis inciso-crenatis glabris nervosis subtus pallidioribus, petiolis brevibus, pedunculis sub-3-floris foliis longioribus, pedicellis germinibusque glanduloso-pilosis, calycibus tubulatis pedicellis longioribus, staminibus longissime exsertis.

On the north-west coast. *Menzies. 2. v. s. in Herb. Banks.* The younger branches are hispid ; the flowers

p. 165.

large, purple. The leaves are small, and have some resemblance to those of *Thalictrum*.

- p. 165. *Ribes Menziesii*.—R. sub gemmis 3-plicato-aculeatum; ramis hispidissimis, foliis basi truncatis sub-5-lobis incisodentatis, lobis lateralibus brevioribus, subtus tomentosis, pedunculis subbifloris foliis subæquantibus, calycibus tubulosis: limbo patente, staminibus longitudine calycis, stylo exerto, baccis globosis aculeatis.  
On the north-west coast, near Fort Trinidad. *Menzies*.  
h. v. s. in *Herb. Banks*. The flowers of the size and colour of *R. sanguineum*.
- p. 173. *Viola asarifolia*.—V. acaulis, pubescens; foliis dilatato-reniformibus acutis circumcirca crenato-dentatis basi flabellatim in petiolum attenuatis, pedunculis foliis multo brevioribus.  
*Viola caroliniana maxima*, foliis cucumerinis, floribus ad radicem pediculis brevibus natis. *Herb. Sherard*,  
In low rich woods: Virginia to Carolina. *Catesby*. 4.  
May. v. s. in *Herb. Sherard*. I have seen this species several times in Virginia, but generally without flowers; which has been the reason that no specimen was in my collection.
- p. 190. *Hydrocotyle ambigua*.—H. folio radicali composito, caule subaphyllo 2-3-umbellifero, umbellulis sub-3-floris, petalis lanceolatis.  
In Upper Louisiana. *Bradbury*. v. s. in *Herb. Bradbury*.  
A very small plant; flowers in proportion large, white, with purple anthers; resembling *H. composita*.
- p. 192. *Selinum acaule*.—S. glabrum, acaule; foliis bipinnatis, foliolis linearibus superioribus confluentibus, scapis radicalibus foliis brevioribus, umbellulis radii masculis.  
In Upper Louisiana. *Bradbury*. 4. v. s. in *Herb. Bradbury*. Not above two or three inches high; the seeds resembling those of *Pastinaca sativa*.
- p. 197. *Seseli divaricatum*.—S. caule ramosissimo divaricato, foliis bipinnatifidis, laciniis lanceolatis incisis, involucris nullis, involucellis linearibus.  
In Upper Louisiana. *Bradbury*. v. s. in *Herb. Bradbury*.  
Resembles *S. tortuosum* very much.
- p. 223. *Allium cernuum*.—A. scapo nudo tetragono umbellifero, foliis linearibus planiusculis, umbella cernua, staminibus simplicibus, germine sex-dentato. *Roth in Annals of bot.* 2. p. 27.

Icon  
On  
A  
ac  
*Smilax*  
tis  
Poly  
H  
In H  
A  
it  
di  
*Helonia*  
div  
lis  
ori  
Bo  
On th  
in  
No  
*Rumex*  
ve  
In U  
Br  
*Smilax*  
con  
lat  
S. flo  
mo  
In So  
ran  
me  
stin  
*Gaura*  
cec  
din  
G. co  
In U  
Ab  
sca  
as  
I s  
*Oenothe*  
vis

Icon. *Cat. bot. fasc. 2. t. 2. Bot. mag.* 1324.

On the mountains of Virginia and Carolina. *W.* July, Aug. *v. v.* Flowers large, rose-coloured, sweet-scented; the leaves have scarcely any scent.

p. 233.

*Smilacina stellata*, *β.* uniflora. — *S.* foliis subfalcato-lanceolatis glabriusculis, caule unifloro.

*Polygonatum monanthemum*, flore parvo erecto. *Sherard. Herb.*

In Hudson's Bay. *Tilden. W. v. s. in Herb. Sherard.* As I have seen but one individual specimen, I consider it only as a variety, though it is probable it may be a distinct species.

*Helonias graminea*. — *H.* scapo folioso paniculato, racemis divaricatis, bracteolis ovatis pedicellis longioribus, petalis oblongis acuminatis, staminibus corolla triplo brevioribus, foliis linearibus canaliculatis subtus glaucis. — *Bot. mag.* 1599.

p. 243.

On the mountains of Georgia. *Lyon. W. Aug. v. s. in Herb. Lyon.* This species has a strong affinity with *Nolina Georgiana*.

p. 248.

*Rumex venosus*. — *R.* valvulis maximis integerrimis reticulato-venosis, foliis lanceolatis integerrimis parallelo-venosis.

In Upper Louisiana. *Bradbury. W. v. s. in Herb. Bradbury.* The seeds resemble those of *R. vesicarius*.

p. 249.

*Smilax circidifolia*. — *S.* aculeata; foliis inermibus orbiculato-cordatis acuminatis 5-nervibus utriusque glabris reticulato-venosis breviter petiolatis.

*S. floridana*; viticulis spinosis judicæ arboris folio maximo cordato. *Pluk. amalth.* 194.

In South Carolina. *Catesby. W. v. s. fl. in Herb. Sherard.* Though the description was taken from a specimen without flowers, I am convinced of its being a distinct species from any one described.

p. 260.

*Gaura coccinea*. — *G.* sericeo-pubescent; foliis lineari-lanceolatis subdenticulatis, spica conferta, petalis longitudine calycis, stigmate subintegro.

*G. coccinea. Fraser. catal.* 1813.

In Upper Louisiana *Bradbury. v. s. in Herb. Bradbury.* About a span high; flowers smaller than *G. biennis*, scarlet. In the Catalogue quoted this plant is marked as a perennial, but by the appearance of the specimen I should take it to be only annual.

p. 262.

*Oenothera albicaulis*. — *O.* tenuissime pubescens; caule nervisque foliorum albidis, foliis pinnatifidis, laciniis diva-

ricatis, floribus subspicatis, germinibus sessilibus cylindraceis, staminibus corolla brevioribus, petalis obcordatis.

*O. albicaulis. Fraser. catal. 1813.*

In Upper Louisiana. *Braabury. ♂. v. s. in Herb. Bradbury.* Not above four inches high; flowers large, white. This species is intermediate between *O. tetra- ptera* and *O. sinuata*.

*Oenothera Fraseri.*—*O. glabriuscula*; caule inferne simplici, superne ramuloso, foliis ovatis petiolatis glanduloso-denticulatis, racemis foliosis, capsulis pedicellatis obovatis 4-gonis.

In South Carolina. *Fraser. ♀. June, July. v. v. in Hortis.* This species approaches so near to *O. fruticosa* that it is difficult to define the distinction, though their other habits are so very different. The present species flowers a short time, the stems decay, and form immediately a tuft of large radical leaves. *O. fruticosa* flowers till late in autumn, and never shows its radical leaves in that manner. The differentia specifica of *O. fruticosa* will be *O. fruticosa*, tenue pubescens; caule a basi ramosa, divaricata, foliis sessilibus lanceolatis subdentatis acutis, capsulis pedicellatis oblongo-clavatis angulatis.

*Oenothera macrocarpa.*—*O. glabriuscula*; caule ramoso, foliis lanceolatis, petiolatis, distanter glanduloso-denticulatis margine nervisque sericeo-albidis, petalis cum acumine obcordatis, capsulis ellipticis 4-alatis brevissime pedicellatis.

*O. missouriensis. Bot. mag. 1592.*

On the banks of the Mississippi, near St. Louis. *♂. July—Oct. v. v. in Hort. Lambert.* This species exceeds in size and beauty of its flowers any other one known; they are of a bright yellow, very large, and open about five o'clock in the evening. The calyx is covered with a very fine and white silky down, and is spotted with purple. The figure in the Botanical Magazine is apparently taken from a very weak and starved plant: the flowers of those in possession of A. B. Lambert, Esq., were nearly six inches in diameter, and the tube nearly seven inches long. There is an inequality on the edges of the petals, but by no means can it be called serrulate, which term has been introduced in the differentia specifica, and strongly but erroneously expressed in the figure. The specific name given there is inapplicable, as it never was found any where else,

bu  
rip  
*Oenothera*  
den  
gis  
15  
*O. sc*  
On th  
v. f  
*He*  
of  
wh  
err  
was  
isian  
*Eriogon*  
bell  
lan  
In Up  
*Bra*  
two  
whi  
*Cactus v*  
lind  
C. viv  
In Up  
Res  
red  
In t  
men  
plan  
racte  
*Cratægus*  
obov  
brev  
In Can  
*Her*  
spat  
of th  
*Rosa lute*  
bris,  
libus

but near St. Louis, where Mr. Nuttall gathered the ripe fruits of it, specimens of which I have seen.

*Oenothera caespitosa* — *O. acaulis*; foliis lanceolatis incisodentatis, capsulis oblongis sessilibus, calycis tubo longissimo, petalis bilobis distantibus. *Sims in Bot. mag.* 1593.

p. 263.

*O. scapigera. Fl. amer. sept. 1. p. 263.*

On the banks of the Missouri. *Lewis. 4. June. July. v. v. in Hort. Fraser; v. s. specimen imperfectum in Herb. Lewis.* This singular species resembles *O. acaule* of Cavanilles. The flowers open in the evening, are white, changing to red, and of an agreeable scent. The erroneous description given in the place above quoted was owing to a very imperfect specimen in the Lewisian collection.

*Eriogonum pauciflorum.* — *E. caule simplici basi folioso, umbellis paucifloris, floribus subsessilibus, foliis lineari-lanceolatis utrinque cano-tomentosis.*

p. 277.

In Upper Louisiana. *Bradbury. 4. v. s. in Herb. Bradbury.* This is the smallest species, generally from two to three inches high; the flowers appear to be white.

*Cactus viviparus.* — *C. subrotundus multiplex, tuberculis cylindraceis barbatis supra sulca exaratis proliferis.*

p. 327.

*C. viviparus. Fraser. catal. 1813.*

In Upper Louisiana. *h. v. v. s. fl. in Hort. Lambert.* Resembles *C. mammillaris*; the flowers are large and red; the fruit the size of a grape, green and eatable. In the same collection are also the two other species mentioned in Fraser's Catalogue; but only seeing the plants without flowers, I could not define their characters.

*Crataegus turbinata.* — *C. inermis, glabra; foliis cuneato-obovatis incisiss serratis, corymbis paucifloris, pedicellis brevibus, fructibus turbinatis.*

p. 336.

In Carolina and Virginia. *h. v. v.; v. s. in Herb. Sherard.* This species approaches near to *C. spatulata*, but its fruit distinguishes it from all the rest of the American species.

*Rosa lutescens.* — *R. germinibus globosis pedunculisque glabris, ramulis hispido-spinosis, foliolis (7) glabris ovalibus acuminato-serratis, petiolis inermibus, floribus so-*

p. 345.

littarils, laciniis calycis lanceolatis cuspidatis, petalis ovalibus obtusissimis.

In Carolina.  $\mathfrak{h}$ . May, June. *v. v. in Hort. Lee.* Flowers white, with a faint tint of yellow.

- p. 352.* *Geum triflorum*.—*G. pilosum*; caule simplici subtrifloro, foliis radicalibus interrupte pinnatis, foliolis cuneatis inciso-dentatis, petalis oblongis longitudine calycis, aristis longissimis villosis.  
In Upper Louisiana. *Bradbury. M. v. s. in Herb. Bradbury.* The aristas of the seeds are resembling those of *Clematis*.
- p. 356.* *Potentilla arguta*.—*P. erecta*, simplex, pubescens; foliis pinnatis, foliolis ovatis argute dentatis, exterioribus majoribus, stipulis rhomboideis incisissimis, floribus terminalibus conferto-corymbosis.  
In Upper Louisiana. *Bradbury. M. v. s. in Herb. Bradbury.* Flowers yellow; leaves large.
- p. 384.* *Clematis Catesbyana*.—*C. scandens*, pubescens; foliis biterminatis, foliolis subcordatis trilobis, paniculis divaricato-dichotomis, petalis staminibus longioribus, floribus subdioicis.  
In South Carolina. *Catesby. M. v. s. in Herb. Sherard.* Resembles *C. virginica*. The filaments of the female flowers are membranaceous, linear, and without anthers.
- p. 385.* *Clematis ovata*.—*C. erecta*, simplex; foliis ovatis sensim acutis brevi-petiolatis glabris utrinque reticulato-venosis, inferioribus subcordatis pedunculo terminali solitario unifloro, aristis plumosis longissimis.  
In South Carolina. *Catesby. M. v. s. in Herb. Sherard.* Resembles *C. integrifolia*. In the Sherardian Herbarium the figure of *Pluk. mant. t. 379. f. 4.* is quoted; but I consider that figure to be an imperfect specimen of a *Clematis* with compound leaves.
- p. 395.* *Ranunculus multifidus*.—*R. foliis tripartito-multifidis*: laciniis incisissimis approximatis, caule natante, foliolis calycis subrotundis petalis paulo brevioribus.  
In Upper Louisiana. *Bradbury. M. v. s. in Herb. Bradbury.* Flowers yellow; resembles *R. fluvialis*.
- p. 424.* SEYMERIA. *Cal. campanulatus*, 5-partitus: laciniis linearibus, æqualibus. *Cor. campanulata. Tubus calyce*

vis  
ob  
ser  
cor  
St  
va

Seymer  
fol  
Gerar  
In dr  
Au  
yel

Seymer  
sis  
lin  
In So  
Sh  
ing  
sus  
rea  
Ha  
of  
not  
her  
cha  
I h  
Sey  
mu  
hist  
gar  
call  
seer  
ber

Chelone  
ova  
In U  
Sep  
larg

Pentstem  
oblo  
race  
ster  
lyci

vix longior. *Limbus* 5-fidus: laciniis subæqualibus, oblongis, patentibus. *Filamenta* 4. brevia, fauce inserta. *Antheræ* erectæ, oblongæ, nudæ, longitudine corollæ. *Stylus* declinatus, longitudine staminum. *Stigma* simplex. *Caps.* subrotunda, 2-locularis, 2-valvis, apice dehiscens.

*Seymeria tenuifolia*.—S. glabriuscula, virgatim paniculata; foliis setaceo-pinnatifidis, laciniis divisis.

*Gerardia Cassioides*. Vol. 2. p. 424.

In dry sandy woods of Carolina and Georgia. ☉ July, Aug. v. s. in *Herb. Sherard*. Flowers small, dark yellow.

*Seymeria pectinata*.—S. viscido-pubescent, brachiatis ramissima; foliis pectinato-pinnatifidis, laciniis indivisis linearibus acutis.

In South Carolina. *Catesby*. ☉ July. v. s. in *Herb. Sherard*. Flowers the size and colour of the preceding. While writing the genus *Gerardia*, I strongly suspected *G. cassioides* to be a distinct genus, which already had been considered so by Walter and Gmelin. Having no materials then at hand, I followed the authority of Michaux. But finding in the Sherardian Herbarium not only that species, but also a new one described here, I was convinced of its generic distinction, the character of which is well expressed in *Walt. fl. car.* 171. I have named this genus in memory of the late Henry Seymer, Esq. of Hanford, Dorsetshire, a gentleman much celebrated for his extensive collections in natural history, and for whom Dr. Solander had so great a regard as to dedicate the plant which afterwards was called *Solandra grandiflora* to his memory, as I have seen it named *Seymera* in the Herbarium of A. B. Lambert, Esq., in Dr. Solander's own handwriting.

*Chelone Lyoni*.—C. glabra, ramosa; foliis petiolatis cordato-ovatis serratis, spicis terminalibus densifloris.

p. 427.

In Upper Carolina and Georgia. *Lyon*. ♀. July—Sept. v. s. in *Herb. Lambert*. This is a very fine and large species; flowers purple.

*Pentstemon eriantherus*.—P. caule pumilo pubescente, foliis oblongis acutis obsolete denticulatis subhirsutis, floribus racemosis, pedicellis plerumque solitariis, filamento sterili exerto apice revoluta longitudinaliter barbato, calycis foliolis linearibus hirsutissimis.

p. 428.

*P. orianthera*. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. M. v. s. in Herb.*  
*Bradbury.* Not above a span high; flowers large in proportion, of a deep purple; the hairs of the infertile anthera are long and golden yellow. It approaches near to *P. frutescens*.

*Pentstemon angustifolia*.—*P.* caule vix pubescente, foliis glabris longe linearibus integerrimis, floribus racemoso-paniculatis, filamento sterili reliquis brevioribus superius subhirsuto, calycis foliolis lanceolatis glabris.

*P. angustifolium*. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. M. v. s. in Herb.*  
*Bradbury.* Flowers resembling those of *P. pubescens*.

*Pentstemon glabra*.—*P.* caule foliisque glabris, foliis subamplexicaulibus ovato-oblongis integerrimis, floribus racemoso-paniculatis, filamento sterili nudo clavato apice retuso, calycis foliolis subrotundis acuminatis, laciniis corollæ subæqualibus rotundatis, antheris hirsutis.

In Upper Louisiana. *Bradbury. M. v. s. in Herb.*  
*Bradbury.* A fine and large species; flowers dark purple.

*Pentstemon Bradburii*.—*P.* glaberrima; foliis subamplexicaulibus ovato-oblongis integerrimis, superioribus subrotundis, floribus verticillatis, filamento sterili apice brevi barbato, calycis foliolis oblongis acutis.

*P. grandiflorum*. *Fraser. catal.* 1813.

This is the finest and largest of all the species; the flowers very large, and variable in their colour.

p. 431.

*Castilleja sessiliflora*.—*C.* foliis apice palmato-incisis, floribus sessilibus.

In Upper Louisiana. *Bradbury. M. v. s. in Herb.*  
*Bradbury.*

*Caulis* ramosus, teres, dense pubescens. *Folia* alterna, sessilia, utrinque pubescentia, apice in lacinias 3—5. divisa: laciniis linearibus, elongatis, acutis. *Flores* in apice ramorum axillares, solitarii, sessiles, coccinei? *Calyx* tubulosus, basi ventricosus, 4-fidus? *Corolla* ringens. *Labium* superius acutum? *inferius* trifidum: laciniis linearibus, acutis, labio superiore vix brevioribus. *Stamina* fauci corollæ inserta, uliformia, longitudine labii superioris, glabra. *Antheræ* lineares. *Stigma* exsertum.

This h  
with

*Cleome pi*  
tis, f  
super  
lis a  
In Up  
Abou  
pods

*Polygala*  
mita  
Mich  
I cyan  
In swa  
Flow

*Vicia stipu*  
bus,  
foliol  
sis gl  
In Up  
Brad

*Caulis s*  
*liola*  
utrin  
basi s  
setace  
*Racem*  
*Legum*

*Ervum m*  
folio  
4-sper  
obtus  
*Astragal*  
In Up  
v. s. i  
*Caulis er*  
serice  
briusci  
natæ.  
*teæ m*  
celloru  
bidi,  
brevio

This highly interesting plant has some distant affinity with *C. fissifolia*. *Smith ic. ined.* 1. 40.

*Cleome pinnata*.—*C. subpubescens*, hexandra; foliis pinnatis, foliolis lanceolatis inferne attenuatis rariter dentatis, superioribus confluentibus, floribus racemosis, pedicellis aggregatis,

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* About two feet high; flowers of a bright yellow; the pods are on very long pedicels.

*Polygala corymbosa*.—*P. caule inferne simplicissimo, sammitate ramosa corymbosa multiflora, foliis linearibus.*—*Mich. fl. amer.* 2. p. 54.

*P. cymosa. Walt. fl. car.* 179.

In swamps: Carolina to Florida. 24. July, Aug. *v. s.* Flowers yellow, when dried green.

*Vicia stipulacea*.—*V. racemis subquadrifloris folio longioribus, stipulis foliiformibus basi semisagittatis integris, foliolis 8—10. lineari-lanceolatis utrinque acutis nervosis glabris.*

In Upper Louisiana. *Bradbury. 24. v. s. in Herb. Bradbury.*

*Caulis* subtetragonus, striatus, simplex, vix pedalis. *Foliola* 8—10. opposita lineari-lanceolata acuta glabra utrinque elevato-nervosa. *Stipulae* longitudine foliorum, basi semisagittatae, auriculis acutis. *Cirrhus* obsoletus, setaceus. *Pedunculi* axillares folio duplo longiores. *Racemi* plerumque 4-flori. *Flores* magni, purpurei. *Legumen* glabrum.

*Ervum multiflorum*.—*E. racemis pedunculatis multifloris folio longioribus, leguminibus lanceolatis glabris sub-4-spermis, stipulis ovatis acuminatis, foliolis linearibus obtusis, cirrhis nullis, caule paniculato.*

*Astragalus tenellus. Vol.* 2. p. 473.

In Upper Louisiana. *M. Lewis and Bradbury. 24. Aug. v. s. in Herb. Lewis. nec non Bradbury.*

*Caulis* erectus, paniculato-ramosus, teres. *Ramuli* juniores sericei. *Foliola* plurima, alterna linearia, obtusa, glabruscula. *Cirrhii* nulli. *Stipulae* ovatae longe acuminatae. *Racemi* axillares, elongati, pedunculati. *Bractae* minutae, ovatae, acuminatae, vix longitudine pedicellorum. *Pedicelli* flore breviores. *Flores* parvi albidii, vexillo oblongo. *Calyx* sericeus, corolla triplo brevior, dentibus subulatis. *Stylus* filiformis, glaber,

p. 441.

p. 446.

p. 472.

inflexus. *Stigma* acutum, glabrum. *Legumina* pendula, oblongo-lanceolata, glabra, 3-4-sperma.

Of this plant I had an imperfect specimen in the Lewisian Herbarium, together with some pods of an *Astragalus*, which led me into the error of placing it under that genus; but having since seen fine specimens in the collection of Mr. Bradbury, I was enabled to correct this error.

*Astragalus racemosus*.—*A.* caulescens, erectus, subpubescens; foliolis (21) lanceolatis superne sensim minoribus, stipulis ovatis acuminatis, spicis racemosis pedunculatis folio longioribus, densifloris, bracteis linearibus pedicellis brevioribus, calycibus glabriusculis, dentibus subulatis.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. Flower white. Resembles *A. carolinianus*.

*Astragalus carnosus*.—*A.* caulescens, diffusus, albido-sericeus, foliolis (21) ellipticis supra glabris, subtus sericeis, stipulis subulatis, spicis subsessilibus, leguminibus globosis inflatis carnosis.

In Upper Louisiana. *Bradbury*. *v. s. in Herb. Bradbury*. The fruit resembles that of *A. psysodes*. Flowers appear to have been white. This is probably the *A. crasiscarpus* *Fraser. catal.* 1813.

p. 473.

*Astragalus triphyllus*.—*A.* acaulis, argenteus, foliis ternatis, foliolis sessilibus lanceolatis, scapo nullo, leguminibus sessilibus oblongis.

In Upper Louisiana. *Bradbury*. *U. v. s. in Herb. Bradbury*. A most singular species, the leaves of a shining silver colour; the flowers were too much decayed when I examined the specimens.

*Oxytropis Lambertii*.—*O.* acaulis, sericeo-pilosa; foliolis (19) lanceolato-ellipticis utrinque acutis, scapis folia æquantibus, spicis capitatis, bracteis linearibus longitudine calycis.

On the Missouri. *Bradbury*. *U. Aug. Sept. v. v. in Hort. Lambert*. Flowers a beautiful purple. It approaches near to *O. argentata* and *setosa*.

p. 474.

*Dalea aurea*.—*D.* sericeo-villosa; spicis oblongis terminalibus solitariis, bracteis oblongis acuminatis calycis longitudine ciliatis, calycibus villosissimis, foliis sub-2-jugis oblongis obovatisque obtusis.

*D. aur*  
In U  
*Bra*  
spik  
*lea la*  
mo  
flori  
cari  
foli  
*D. enu*  
In Up  
*Bra*  
flow  
silk  
the  
*Psoralea*  
lis el  
ribus  
brev  
In Up  
*Bra*  
purp  
*Psoralea*  
natis  
dunc  
brac  
In Up  
*Bra*  
The  
ral in  
*Psoralea*  
liolis  
densi  
consp  
*P. macr*  
In Up  
*Brad*  
escul  
*Cytisus rh*  
erect  
longo  
obliqu

*D. aurea*. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. U. v. s. in Herb.*  
*Bradbury.* Flowers bright yellow, in oblong hairy spikes.

*D. laxiflora*.—*D. glabriuscula*; caule superne ramosissimo, ramis laxis elongatis, spicis paniculatis elongatis, floribus remotiusculis, bracteis subrotundis mucronatis carinatis, floribus enneandris, calycibus sericeo-villosis, foliis sub-4-jugis linearibus.

*D. enneandra. Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. U. v. s. in Herb.*  
*Bradbury.* This is the tallest of the genus. The white flowers are in narrow spikes, and have remarkable silky calyces, which form a fine contrast with the rest of the plant, being entirely destitute of hair.

*Psoralea elliptica*.—*P. subpubescens*; foliis ternatis: foliolis ellipticis obtusis, pedunculis axillaribus folio longioribus, spicis conferto-paucifloris, dentibus calycis abbreviatis.

p. 475.

In Upper Louisiana. *Bradbury. U. v. s. in Herb.*  
*Bradbury.* Flowers small, white with a tinge of purple.

*Psoralea longifolia*.—*P. undique sericeo-villosa*; foliis ternatis: foliolis linearibus elongatis, spicis axillaribus pedunculatis laxifloris folio brevioribus, dentibus calycis bracteisque subulatis.

In Upper Louisiana. *Bradbury. U. v. s. in Herb.*  
*Bradbury.* Flowers midde-sized, apparently white. The leaves have none of those glandular dots so general in this genus.

*Psoralea cuspidata*.—*P. villosa*; foliis digitato-quinatis, foliolis obovatis mucronatis integerrimis, spicis axillaribus densifloris, laciniis calycis bracteisque ovatis cuspidatis conspicue punctatis.

p. 476.

*P. macrorhiza. Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. U. v. s. in Herb.*  
*Bradbury.* This species has some resemblance to *P. esculenta*.

*Cytisus rhombifolius*.—*C. pubescens*; racemis terminalibus erectis, leguminibus falcatis subarticulatis, foliolis oblongo-rhomboides obtusis, stipulis rotundato-ovatis obliquis.

p. 489.

*C. rhombifolius*. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. v. s. in Herb. Bradbury.* The stipulæ are large and foliaceous; the specimen I have seen was in fruit, and Mr. Bradbury has seen only one plant in flower.

p. 505.

*Troximum glaucum*.—T. scapo unifloro glabriusculo, foliis lineari-lanceolatis planis integerrimis utrinque glaucis, calycinis foliolis imbricatis acutis pubescentibus.—*Vol.* 2. p. 505.

*Troximum cuspidatum*.—T. scapo unifloro superne subtomentoso, foliis linearibus margine undato tomentosis, calycinis foliolis imbricatis cuspidatis glabris.

In Upper Louisiana. *Bradbury. U. v. s. in Herb. Bradbury.* Flowers large, yellow. Resembles the preceding.

p. 519.

*Hymenopappus scabiosæus*.—H. candicanti-lanuginosus; foliis profunde pinnatifidis, laciniiis lineari-oblongis subdentatis, floribus simpliciter corymbosis, calyce sub-10-phyllo flosculis majore, seminibus pubescentibus.—*Vol.* 2. p. 519.

*Hymenopappus tenuifolius*.—H. candicanti-lanuginosus; caule corymboso-ramoso, foliis subbipinnatifidis, laciniiis anguste linearibus integris, floribus composite corymbosis, pedicellis confertis, calyce sub-6-phyllo flosculis breviori, seminibus villosissimis.

In Upper Louisiana. *Bradbury. J. v. s. in Herb. Bradbury.* At first sight I considered this to be the same with the preceding species; but comparing the figure and description in the *Journal d'Histoire Naturelle*, vol. 1. p. 16. t. 1. with my specimen, I found them materially distinct. The flowers are white, and not half the size of the former.

p. 521.

*Artemisia dracunculoides*.—A. glabra; ramis nutantibus, foliis longo-linearibus subfalcatis, radicalibus trifidis, racemis foliosis, pedicellis brevibus, floribus erectis, calycibus subglobosis paucifloris, foliolis scariosis.

A. nutans. *Fraser. catal.* 1813.

In Upper Louisiana. *Bradbury. U. v. s. in Herb. Bradbury.* From three to four feet high; flowers very small.

p. 532.

*Erigeron hirsutum*.—E. undique hirsutissimum; caule sim-

plūci unifloro, foliis linearibus integerrimis enervibus, calycibus hirsutis.

*E. uniflorum*. Willd. sp. pl. 3. p. 1960 ?

In Upper Louisiana. *Bradbury*. ♀. v. s. in *Herb. Bradbury*. Not above five inches high ; flowers large, ray white and long.

*Galardia acaulis*.—*G. pilosa* ; scapo unifloro, foliis linearispathulatis, paleis pappi (5—7) ovatis brevi-aristatis.

In Upper Louisiana. *Bradbury*. ♀. v. s. in *Herb. Bradbury*. Not above a span high ; flower small, simply yellow.

*Iva axillaris*.—*I. herbacea*, subpilosa ; foliis plerumque oppositis lineari-lanceolatis integerrimis, floribus axillariibus solitariis nutantibus, calycibus simpliciusculis, foliolis ovatis.

In Upper Louisiana. *Bradbury*. ☉. v. s. in *Herb. Bradbury*. About a span high ; flowers white.

*Ambrosia hispida*.—*A. undique canescenti-hispida* ; foliis bipinnatifidis, lacinii incisis, racemis terminalibus subpaniculatis.

In South Carolina. *Catesby*. ☉. v. s. in *Herb. Sherard*. About a foot high ; flowers larger than *A. trifida*.

*Orchis herbiola*.—*O. cornu filiformi* germine brevior, labello oblongo obtuso basi utrinque dentato ; palato undentato, bracteis flore longioribus.

*Habenaria herbiola*. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*

In North America. *Fothergill*. ♀. +. This species, unknown to me, appears to approach near to *Orchis fuscescens*.

*Aristolochia tomentosa*.—*A. caule volubili frutescente*, foliis petiolatis cordatis subtus tomentosis, pedunculis solitariis ebracteatis, corollæ tubo retorto ; limbo subæqualiter trifido ; ore hiante. *Sims in bot. mag.* 1369.

On the mountains of South Carolina. *Lyon*. ♀. June. v. v. Resembles *A. Siph.* Flowers yellow.

*Alnus glauca*.—*A. foliis oblongis acutis duplicato-serratis subtus glaucis*, axillis venarum nudis, stipulis lanceolatis.—*Nich. arb.* 3. p. 322. t. 4.

In New England and on the high mountains of Pennsylvania. ♀. March, April. v. v. This shrub, which is known by the name of *Black Alder*, has a strong resemblance to *A. incana*.

# ADDENDA ET CORRIGENDA.

## VOL. I.

- pag.  
 1 lin. 4 loco *Monoicum* lege *Monoica*. This error occurs in this and the next table of genera.  
 15 adde *Monoicum*.  
 22 adde *Monoica*.  
 23 adde *Monoica*.  
 3 7 *Hippuris vulgaris*. In the Sherardian Herbarium are specimens collected at Hudson's Bay which I compared with the European *Hippuris*, and found them entirely distinct. I rather suspect this plant ought to be placed among the *Filices*.  
 6 5 adde *Dioica*.  
 7 12 adde *Dioica*.  
 13 adde *Dioica*.  
 15 adde *Monoica*.  
 7 ab infer. adde *Mich. arb. 3. p. 50. t. 6*.  
 8 17 ab infer. lege *Mich. arb. 3. p. 122. t. 12*.  
 11 ab infer. lege *Mich. arb. 3. p. 118. t. 11*.  
 3 et 5 ab infer. delendæ sunt.  
 9 5 delenda est.  
 6 lege *Mich. arb. 3. p. 106. t. 8*.  
 14 dele *Mich. arb. ejus loco Catesb. car. 1. t. 80*.  
 19 dele *Catesb. car. t. 80. et lege Mich. arb. 3. p. 128. t. 13*.  
 26 lege *Mich. arb. 3. p. 112. t. 9*.  
 3 ab infer. lege *F. viridis. Mich. arb. 3. p. 115. t. 10*.  
 10 5 adde *Mich. arb. 3. p. 217. t. 6*.  
 16 *Monarda Kalmiana*, adde *Icon. t. 1*.  
 17 13 post *Flowers* adde *pale*.  
 21 *Ceratiola ericoidea*, adde *Icon. t. 13*.  
 24 25 *Rhynchospora* lege *Rhynchospora*.

pag.  
26  
30

42  
43  
61  
62  
72  
95  
96  
98

102

115

126

128

138

146

158

159

163

164

165

166

167

169

175

177

- pag. lin.  
 26 30 dele genus ANTHISTIRIA.  
 30 Iris cuprea, adde *I. fulva*. *Bot. mag.* 1496.  
 Iris verna, *conf. Bot. mag.* 1393. *observ.*  
 Iris prismatica, adde *Bot. mag.* 1304.  
 42 16 loco foliis lege foliisque.  
 43 18 loco *E* lege *C*.  
 61 9 et 14 loco *Dilepycum* lege *Dilepyrum*.  
 62 Miliun amphicarpon adde *Icon. Tab.* 2.  
 72 6 ab infer. loco *A* lege *S*.  
 95 23 dele 2. ante biloculari.  
 96 7 ab infer. loco involucro lege involucris.  
 98 8 ad marginem loco data lege cordata.  
 ultima, loco caule lege scapo.  
 102 *Oldenlandia glomerata*. Willdenow's and Lamarck's synonym seem to belong to a very ambiguous species of this genus, or, as I strongly suspect, to *Ludwigia nitida*, as I have seen this plant in the Sherardian Herbarium under the name and synonyms of *Oldenlandia uniflora*.  
 115 Planera aquatica, adde *P. ulmifolia*. *Mich. arb.* 3. p. 283.  
 126 18 loco *Gonolobus* lege *Gonolobium*.  
 20 loco Appendix lege Appendices.  
 inter 224 et 225 insere CEROPEGIA. *Folliculi* 2. erecti. *Sem.* plumosa. *Cor.* urceolata limbus connivens.  
 128 inter 244 et 245 insere SISON. *Fructus* ovatus, striatus. *Invol.* sub-4-phylla.  
 138 8 ab infer. post palustris adde  $\beta$ . inflata.  
 146 *Ipomœa Jalapa*, adde *Convolvulus Jalapa*. *Bot. mag.* 1372.  
 158 *Pinkneya pubescens*, adde *Mich. arb.* 2. p. 276.  
 t. . . .  
 159 11 et 12 delendæ sunt.  
 163 *Ribes resinosum*, adde *Icon. Bot. mag.* 1583.  
 164 7 ab infer. adde *Mich. fl. amer.* 1. p. 109.  
 165 7 ab infer. loco lacustris lege lacustre.  
 166 1 loco subgeminis lege sub gemmis.  
 167 6 adde *Bot. mag.* 1479.  
 169 ultima, ante utrinque adde foliis.  
 175 *Claytonia lanceolata*, adde *Icon. Tab.* 3.  
 177 *Nyssa villosa*, adde *N. sylvatica*. *Mich. arb.* 2. p. 260. t. 21.  
*Nyssa biflora*, adde *Mich. arb.* 2. p. 265. t. 22.  
 2 c 2

pag.	lin.	
177		<i>Nyssa candicans</i> , adde <i>Mich. arb.</i> 2. p. 257. t. 20.
178		<i>Nyssa tomentosa</i> , adde <i>Mich. arb.</i> 2. p. 252. t. .
181	1	loco 1187 lege 1181.
186	1	adde <i>Bot. mag.</i> 1551.
187	20	loco unifloribus lege unifloris.
199		ultima, adde <i>Mich. arb.</i> 3. p. 269. t. . . .
200		<i>Ulmus fulva</i> , adde <i>U. rubra. Mich. arb.</i> 3. p. 278. t. . . .
		<i>Ulmus alata</i> , adde <i>Mich. arb.</i> 3. p. 275. t. . . .
		<i>Celtis occidentalis</i> , adde <i>Mich. arb.</i> 3. p. 226. t. 8.
		<i>Celtis crassifolia</i> , adde <i>Mich. arb.</i> 3. p. 228. t. 9.
206	17	loco ramosissima lege ramosissimo.
219		<i>Berberis aquifolium</i> , adde <i>Icon. Tab.</i> 4.
		<i>Berberis nervosa</i> , adde <i>Icon. Tab.</i> 5.
221		<i>Gleditschia triacanthos</i> , adde <i>Mich. arb.</i> 3. p. 164. t. . . .
		<i>Gleditschia monosperma</i> , adde <i>Mich. arb.</i> 3. p. 169. t. . . .
223		<i>Allium angulosum</i> , adde <i>A. stellatum. Bot. mag.</i> 1576.
224		<i>Conostylis americana</i> , adde <i>Icon. Tab.</i> 6. <i>Lophiola aurea. Bot. mag.</i> 1596. In this figure the flowers are more than twice the size of those in its native state.
226		<i>Phalangium Quamash</i> , adde <i>Scilla esculenta. Bot. mag.</i> 1574. Having not seen the living plant when I made my description, I was misled by Mr. Lewis in describing one of the petals to be dependent and the rest ascendent, which is not the case.
228		<i>Lilium pudicum</i> , adde <i>Icon. Tab.</i> 8.
232		<i>Streptopus roseus</i> , adde <i>Uvularia rosea. Bot. mag.</i> 1489.
		<i>Streptopus lanuginosus</i> , adde <i>Uvularia lanuginosa. Bot. mag.</i> 1490.
240		<i>Chamærops Palmetto</i> , adde <i>Mich. arb.</i> 2. p. 186. t. . . .
		<i>Nolina georgiana</i> , adde <i>Asphodelus minor albus ex Provincia mariana. Pluk. mant.</i> 29. t. 342. f. 1. (pars paniculæ), secundum <i>Herb. Sherard.</i> Very fine specimens of this rare plant I found in the Sherardian Herbarium collected by M. Catesby on the Savannah river. It resembles <i>Helonias graminea, Bot. mag.</i> 1599.

- pag. lin.
- exceedingly, and I should have taken it to be the same if the pedicels were not solitary, and, as Mr. Kerr observes, the germ polyspermous, which in *Noline* is only 3-spermous.
- 242 *Veratrum viride*, adde *Helonias viridis*. *Bot. mag.* 1096.
- Veratrum angustifolium*.—Of this species I have seen a fine specimen in the Sherardian Herbarium, under the name *Phalangium canadense majus ramosum*, *Iridis folio*, by which it appeared to grow likewise in Canada. The panicle was monoic not dioic, as I observed it in Virginia, the seeds lanceolate, membranaceous.
- 242 14 *ab infer. loco legumine lege tegumine*.
- 243 23 *loco thier lege their*.
- Helonias tenax*, adde *Icon. Tab. 9.*
- 255 *Æsculus flava*, adde *Mich. arb. 3. p. 238. t. . .*
- Æsculus glabra*, adde *Mich. arb. 3. p. 242.*
- 259 4 *ab infer. adde nomen specificum, rosmarinifolium.*
- 263 dele *Oenothera scapigera. Ejus loco vid. Supplementum sub nomine Oenothera cæspitosa.*
- 264 *Menziesia globularis*, adde *M. fetruginea β. Bot. mag. 1571.* Though Dr. Sims considers this species only as a variety, I still think the distinctions given by A. Salisbury, Esq. are sufficient to keep it as a species.
- 265 *Diospyros virginiana*, adde *Mich. arb. 2. p. 195. t. 12.*
- 266 *Acer rubrum*, adde *Mich. arb. 2. p. 210. t. 14.*
- Acer dasycarpum*, adde *Mich. arb. 2. p. 205. t. 13.*
- Acer saccharinum*, adde *Mich. arb. 2. p. 218. t. 15.*
- Acer nigrum*, adde *Mich. arb. 2. p. 238. t. 16.*
- 267 *Acer striatum*, adde *Mich. arb. 2. p. 242. t. 17.*
- 268 *Acer Negundo*, adde *Mich. arb. 2. p. 247. t. 18.*
- 282 *inter AGROSTEMMA et OXALIS*, adde 394.
- LYCHNIS. Cal. 1-phyllus, oblongus, lævis. Pet. 5. unguiculata, limbo subbifido. Caps. 1—5-locularis.*
- 6 loco 394 lege 395.
- 10 loco 395 lege 396.

pag.	No.		pag.
	12	loco 396 lege 397.	
	15	loco 397 lege 398.	
283		<i>Gaultheria serpyllifolia</i> , adde Tab. 13.	
284		<i>Gaultheria Shallon</i> , adde Tab. 12.	
289		<i>Vaccinium nitidum</i> , adde Bot. mag. 1550.	
293		<i>Andromeda floribunda</i> , adde Bot. mag. 1564.	
		In the extensive collection of the Sherardian Herbarium I met with most of the species of <i>Vaccinium</i> and <i>Andromeda</i> described in the present work; but meeting with none that were new, convinced me of the idea that this extensive family is nearly fully described here.	333 339
294		<i>Andromeda mariana</i> , adde var. ovalis. Bot. mag. 1579.	
295		<i>Andromeda arborea</i> , adde Mich. arb. 3. p. 222. t. 7.	340
297		<i>Kalmia latifolia</i> , adde Mich. arb. 3. p. 147. t. 5.	344
		<i>Rhododendron maximum</i> , adde Mich. arb. 3. p. 144. t. 4.	
298		<i>Rhododendron cataubiense</i> . I have had an opportunity of seeing this species in flower at Messrs. Lee and Kennedy's; the plant was not above a foot high; the flowers rose-coloured, similar to those of <i>R. maximum</i> ; but having scarcely any marks or spots on the upper part of the corolla.	348 350 V 362
302		<i>Mylocarium ligustrinum</i> , adde Icon. Tab. 14.	363
		The original drawing of this plant was taken by me at Messrs. Bartrams' near Philadelphia.	365
303		<i>Monotropa morisoniana</i> . I had the pleasure of seeing, in the Oxford Herbarium, the original specimen from which the figure in Morison's History has been taken, and which so erroneously has been quoted under <i>Monotropa uniflora</i> .	390 404
304		<i>Gymnocladus canadensis</i> , adde Mich. arb. 2. p. 272. t. 23.	411 423
308		<i>Podalyria mollis</i> , adde v. s. in Herb. Lambert.	
309		<i>Virgilia lutea</i> , adde Mich. arb. 3. p. 266. t. 3.	424
313		<i>Tiarella cordifolia</i> , adde Bot. mag. 1589.	
327		BARTONIA. Since writing the above article I had an opportunity of seeing both species there described in a living state; the first in the garden of A. B. Lambert, Esq. at Boyton,	427 428

pag. lin.

where it flowered in very high perfection and formed seeds; the other at Messrs. Frasers', Sloane Square. From the latter I have taken the following description.

*Bartonia nuda*.—*Caulis* ramosus, angulatus, glanduloso-pubescent. *Folia* oblonga, sessilia, basi attenuata, repando-dentata, utrinque scabra, viridia. *Inflorescentia* *B. ornate*. *Flores* duplo minores, lutescentes, germinis nudo, angusto. *Petala* 10. angusto-lanceolata. *Filamenta* exteriora longiora, plerumque castrata et petaloidea.

333 *Tigarea tridentata*, adde Icon. Tab. 15.

339 8 *ab infer. loco* linearibus lege lineari-

1 *ab infer. adde* Mespilus arborea. Mich. arb. 3. p. 68. t. 11.

340 *Pyrus coronaria*, adde *Malus coronaria*. Mich. arb. 3. p. 65. t. 10.

341 *Rosa blanda*. Differentia specifica lege R. germinibus globosis pedunculisque hispidis, ramis aculeato-hispidissimis, foliis &c.

348 *Rubus spectabilis*, adde Icon. Tab. 16.

350 *Dalibarda fragaroides*, adde Bot. mag. 1567.

## VOL. II.

362 *Tilia glabra*, adde *T. americana*. Mich. arb. 3. p. 311. t. 1.

363 *Tilia pubescens*, adde Mich. arb. 3. p. 317. t. 3.  
*Tilia heterophylla*, adde *T. alba*. Mich. arb. 3. p. 315. t. 2.

365 *Talinum teretifolium*, adde Pluk. alm. t. 223. f. 2. secundum Herb. Sherard.

390 *Caltha flabellifolia*, adde Icon. Tab. 17.

404 adde CASTILLEJA. Cal. tubulosus unilabiatus. Cor. bilabiata, labio inferiore trifido, glandulis duabus inter lacinias. Caps. bilocularis.

411 *Prunella pensylvanica*, adde Icon. Mart. cent. t. 5.

423 *Gerardia fruticosa*, adde Icon. Tab. 18.

*Gerardia quercifolia*, adde Icon. Tab. 19.

424 *Gerardia cassioides* dele. Ejus loco vide Supplementum sub nomine Seymeria.

427 *Mimulus Lewisii*, adde Icon. Tab. 20.

*Pentstemon lævigata*, adde Bot. mag. 1425.

428 *Pentstemon pubescens*, adde Bot. mag. 1424.

pag.	lin.	
441	13	loco glabrum lege glabra.
451		<i>Hopea tinctoria</i> , adde <i>Mich. arb.</i> 3. p. 61. t. 9.
		<i>Gordonia Lasianthus</i> , adde <i>Mich. arb.</i> 3. p. 131.
		t. 1.
		<i>Gordonia pubescens</i> , adde <i>Mich. arb.</i> 3. p. 135.
		t. 2.
460	inter 591 et 592,	adde CYTISUS. <i>Cal.</i> bilabiatu8 ;
		labio superiore bidentato. <i>Carina</i> erecta.
		<i>Legum.</i> basi attenuatum. 1-loculare, compres-
		sium. <i>Stam.</i> monadelpho.
	inter 587 et 588,	adde ERVUM. <i>Cal.</i> 5-dentatus,
		dentibus subulatis. <i>Stigma</i> simplex, incur-
		vum. <i>Legum.</i> compressum, oligospermum.
		<i>Stam.</i> diadelpho.
465		<i>Polygala Seneca</i> , adde var. <i>γ. tenuifolia</i> —foliis
		linearibus, apicis confertifloris.
		On the Missouri. <i>Lewis and Bradbury. v. s.</i>
468		<i>Lupinus villosus</i> , adde <i>Icon. Tab.</i> 21.
471		<i>Vicia americana</i> , adde <i>v. s. in Herb. Bradbury.</i>
		var. foliis linearibus.
475		<i>Psoralea esculenta</i> , adde <i>Icon. Tab.</i> 22.
479		<i>Lupinaster macrocephalus</i> , adde <i>Icon. Tab.</i> 23.
480		<i>Glycyrrhiza lepidota</i> , loco sericeo-villosa lege
		utrinque lepidotis.
487		<i>Robinia Pseudacacia</i> , adde <i>Mich. arb.</i> 3. p. 245.
		t. 1.
488		<i>Robinia viscosa</i> , adde <i>Mich. arb.</i> 3. p. 262. t. 2.
499		<i>Prenanthes Serpentaria</i> , adde <i>Icon. Tab.</i> 24.
507		<i>Liatris macrostachya</i> , a <i>ide Bot. mag.</i> 1411.
529		<i>Senecio pauperculus</i> , adde <i>v. s. in Herb. Brad-</i>
		<i>bury.</i>
559	3	loco t. 4. lege vol. 5.
564		<i>Amellus villosus</i> , adde <i>Sideranthus integrifolius.</i>
		<i>Fraser. catal.</i> 1813. <i>v. s. in Herb. Bradbury.</i>
		<i>Amellus spinulosus</i> , adde <i>Sideranthus pinnatifidus.</i>
		<i>Fraser. catal.</i> 1813. <i>v. s. in Herb. Bradbury.</i>
571	7	loco acutis lege acuminatis.
572		<i>Galardia bicolor</i> , adde <i>G. bicolor</i> ; caule ramo-
		so, foliis caulinis lanceolatis subdentatis, ra-
		dicalibus dentato-pinnatifidis, paleis pappi
		integerrimis aristatis. <i>Sims in Bot. mag.</i> 1602.
		<i>Virgilia grandiflora. Fraser. catal.</i> 1813.
		This elegant plant, which has been proved to be
		a perennial, though it was always considered

pag. lin.

- an annual, is very variable in its size, colour, and number of florets in the ray. Native specimens collected by Mr. Bradbury are covered with rigid hairs, and have but one flower. Cultivated plants raised from seeds of the same species are more smooth, branch more or less; the leaves are deeper divided, and produce several flowers double the size.
- 575 *Rudbeckia columnaris*, adde *R. columnaris*; foliis pinnatifidis; foliolis lanceolatis, exterioribus ordinatim majoribus, receptaculo cylindraceo elongato. *Sims in Bot. mag.* 1601. This species is not above a foot high, and appears to be annual.
- 580 *Iva ciliata*, adde *Iva annua*. *Mich. fl. amer.* 2. p. 184.
- 585 *Orchis ciliaris*, adde *Habenaria ciliaris*. *Brown in Ait. kew. ed. 2. vol. 5. p. 194.*
- Orchis cristata*, adde *Habenaria cristata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 194.*
- 587 *Orchis viridis*, adde *Habenaria viridis*. *Brown in Ait. kew. ed. 2. vol. 5. p. 192.*
- Orchis bracteata*, adde *Habenaria bracteata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 192.*
- 588 *Orchis hyperborea*, adde *Habenaria hyperborea*. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*
- Orchis fimbriata*, adde *Habenaria fimbriata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 193.*
- 589 *Neottia cernua*, adde *Bot. mag.* 1568.
- Neottia repens*, adde *Goodyera repens*. *Brown in Ait. kew. ed. 2. vol. 5. p. 198.*
- 590 *Neottia pubescens*, adde *Goodyera pubescens*. *Brown in Ait. kew. ed. 2. vol. 5. p. 198.*
- Arethusa divaricata*, adde *Pogonia divaricata*. *Brown in Ait. kew. ed. 2. vol. 5. p. 203.*
- 592 *Cymbidium pulchellum*, adde *Calopogon pulchellus*. *Brown in Ait. kew. ed. 2. vol. 5. p. 204.*
- Cymbidium verecundum*, adde *Bletia verecunda*. *Brown in Ait. kew. ed. 2. vol. 5. p. 206. Bot. mag.* 930.
- 594 *Cypripedium parviflorum*, adde *Bot. mag.* 911,
- 595 *Cypripedium arietinum*, adde *Bot. mag.* 1569

W

**ORIENTAL**  
Familiar I  
including  
Narrative  
F.R.S. &c  
16l. 16s. i  
from origi  
Antiquities  
guished C  
The Sub  
by HOOKE  
scapes and

**THE N**  
**BORNE,**  
**NATURAL**  
**NATURE:**  
Fellow of  
post 4to. b  
which are

*Fifty Cop*  
*Painting, b*  
*Of these ver*

To those  
superfluous  
to matter a  
by Dr. WHI  
to its perus  
and to serve

## VALUABLE WORKS

IN

## Natural History

PUBLISHED BY

WHITE, COCHRANE, AND Co.,

HORACE'S HEAD, FLEET STREET.

---

**ORIENTAL MEMOIRS**; selected and abridged from a Series of Familiar Letters written during Seventeen Years' Residence in India: including Observations on Parts of Africa and South America; and a Narrative of Occurrences in four India Voyages. By JAMES FORBES, F.R.S. &c. Elegantly printed by BENSLEY, in 4 vols. royal 4to. Price 16l. 16s. in boards. With a Portrait of the Author, and 93 Engravings from original Drawings, illustrative of the Natural History, Scenery, Antiquities, and Costume, and including Portraits of several distinguished Characters.

The Subjects of Natural History have been engraved and coloured by HOOKER in a style of great accuracy and beauty; and the Landscapes and other Subjects by C. HEATH, ANGUS, STORER, GREIG, &c.

**THE NATURAL HISTORY AND ANTIQUITIES OF SELBORNE**, in the County of Southampton. To which are added: **THE NATURALIST'S CALENDAR**; **OBSERVATIONS ON VARIOUS PARTS OF NATURE**; and **POEMS**. By the late Rev. GILBERT WHITE, formerly Fellow of Oriel College, Oxford. A new Edition, elegantly printed in post 4to. by BENSLEY, with Additions, and 12 Engravings, several of which are new. Price 2l. 12s. 6d. in boards.

*Fifty Copies are printed on royal quarto paper, (with the copy of a curious old Painting, beautifully coloured,) and done up in 2 vols. Price 5l. 5s. in boards. Of these very few now remain.*

To those who are acquainted with this Work, any recommendation of it is superfluous: to those who are not, the testimonies borne to its merits, both as to matter and style, by some of the most eminent Writers of the present day, by Dr. WHITAKER, Dr. AIKIN, Mr. EDGORTH, &c. may offer some inducement to its perusal. Without exaggeration, it may be said to stand at the head of, and to serve as a model for, all Works of a similar description.

*Valuable Works lately published by*

At the same time is published, handsomely printed in 2 vols. 8vo. with Four Engravings, price 16s. in boards, a new Edition of

**THE NATURAL HISTORY OF SELBORNE:** To which are added, **THE NATURALIST'S CALENDAR; MISCELLANEOUS OBSERVATIONS; and POEMS.**

*Extract from the Advertisement.*—"The NATURAL HISTORY OF SELBORNE has probably been supposed by many to be formed upon a more local and confined plan than it really is. In fact, the greater part of the Observations are applicable to all that portion of the island in which the Author resided, and were indeed made in various places. Almost the only matter absolutely local, is the account of the Antiquities of the Village of Selborne; and this seemed to stand so much apart, that, however well calculated to gratify the lovers of topographical studies, it was thought that its entire omission would be no loss to the Work, considered as a publication in Natural History."—"The Editor flatters himself that, in its present form, it will prove an acceptable addition to the library of the Naturalist, and will in particular be useful in inspiring young persons, and those who pass their time in retirement, with a taste for the very pleasing branch of knowledge on which it treats."

**FAUNA ORCADENSIS; or, The Natural History of the Quadrupeds, Birds, Reptiles, and Fishes of Orkney and Shetland.** By the Rev. **GEORGE LOW**, Minister of Birsá and Haray. From a Manuscript in the possession of **WILLIAM ELFORD LEACH, M.D. F.L.S. &c.** Elegantly printed in 1 vol. sm. 4to. Price 1l. 1s. in boards.

**NATURAL HISTORY; General and Particular.** By the **COUNT DE BUFFON.** Illustrated with above Six Hundred Copper-plates. The History of Man and Quadrupeds translated, with Notes and Observations, by **WILLIAM SMELLIE**, Member of the Antiquarian and Royal Societies of Edinburgh. A new Edition, carefully corrected, and considerably enlarged by many additional Articles, Notes, and Plates, and some Account of the Life of **BUFFON**, by **WILLIAM WOOD, F.L.S.** In 20 vols. 8vo. Price 12l. in boards.

**AN ESSAY ON THE PHILOSOPHY, STUDY, AND USE OF NATURAL HISTORY.** By **CHARLES FOTHERGILL.** Beautifully printed in foolscap 8vo. Price 8s. in boards.

**LACHESIS LAPPONICA; or, A TOUR IN LAPLAND.** Now first published from the original Manuscript Journal of the celebrated **LINNEUS.** By **JAMES EDWARD SMITH, M.D. F.R.S., &c.** President of the Linnæan Society. Handsomely printed in 2 vols. 8vo. with above 60 Wood Cuts from the extemporaneous Sketches of the illustrious Author. Price 1l. 1s. in boards.

"Although the preceding notices and extracts can convey to our readers a very inadequate idea of the quantity of minute details which has been pressed into this interesting diary, they may serve to furnish exemplifications of its nature and spirit. Whoever peruses the entire document with candour and attention, will be induced to regard it as the unaided and unpremeditated production of a student of medicine, in his 25th year, labouring under the daily privation of many comforts, and braving cold, tempest, and danger, in

**WHITE, COCHRANE, and Co. Fleet Street.**

the eager prosecution of natural science. In this Itinerary we perceive no traces of that vanity for which its Author was subsequently too much distinguished."—*Monthly Review*, March 1812.

"Before we close our report of this very extraordinary production, we deem it only an act of justice to the learned and laborious Editor, to mention, that he has bestowed much trouble in deciphering the original manuscript, and in procuring a faithful version of its miscellaneous contents. Even the *fac-similes* of the rough drawings, though executed in a very different style from the pretty plates of Mr. Ackermann's Repository, contribute, nevertheless, to the graphic and ghostly air of the whole performance."—*Edinburgh Review*, Feb. 1812.

**PETRALOGY: A TREATISE ON ROCKS.** By JOHN PINKERTON, Author of *Modern Geography*, &c. Handsomely printed in 2 large vols. 8vo. with 25 Vignette and other Engravings. Price 2l. 2s. in boards.

Extracts from the Introduction.—"I would propose, in the present advanced state of science, that the mineral kingdom be divided into three provinces: 1. PETRALOGY, or the knowledge of rocks, or stones which occur in large masses. 2. LITHOLOGY; the knowledge of gems and small stones. 3. METALLOGY; or the knowledge of metals. Each of these branches is even at present so important, and offers such numerous topics of disquisition and research, that in the course of no long period a Professor of each will appear in Universities; and each might occupy the sole pursuit of an Author who is zealous to make discoveries, or to compose complete and classical works."—"In the present Work it is to be hoped that the want of attention, care, or labour will not be accused. The Author has sedulously employed the intervals of ten years in this production, particularly three which he passed at Paris, where he had constant opportunities of seeing the most opulent cabinets, and of conversing with men eminent in the science; as PATRIN, GILLET-LAUMONT, DAUBUSSION, and others: not to mention interviews with HAÛY and with WERNER, during his short stay in that capital.—He hopes the Work may at least aspire to the humble praise of utility, the chief aim of his labours."

**MINERALOGICAL TRAVELS THROUGH THE HEBRIDES, ORKNEY AND SHETLAND ISLANDS, AND MAINLAND OF SCOTLAND;** with Dissertations upon PEAT and KELP. By ROBERT JAMESON, Regius Professor of Natural History, Keeper of the Museum, and Lecturer on Mineralogy in the University of Edinburgh, President of the Wernerian Society, &c. &c. In 2 vols. 4to. with Maps and Plates. Price 1l. 16s. in boards.

**POMONA HEREFORDIENSIS:** being a descriptive Account of the old CIDER and PERRY FRUITS of HEREFORDSHIRE, which have always been esteemed the best of their Kind; with such new Fruits as have been found to possess superior Excellence. Accompanied by 30 highly-finished coloured Engravings, by WILLIAM HOOKER, from Drawings principally by Miss MATTHEWS. Published under the Patronage of the Agricultural Society of Herefordshire. The Descriptions by T. A. KNIGHT, Esq. In 1 vol. royal 4to. Price 4l. 10s. in boards.

**POMONA LONDINENSIS.** Containing COLOURED REPRESENTATIONS of the BEST FRUITS cultivated in the British Gardens: with De-

*Valuable Works lately published by*

scriptions, in which the Author is assisted by the President and Members of the Horticultural Society. By WILLIAM HOOKER, F.H.S. Draughtsman and Engraver to the Society.

The FIRST and SECOND NUMBERS, handsomely printed on extra super-royal 4to. with seven Plates in each, Price 1l. 1s. per Number, are now ready for delivery.

*A few Copies are taken off on atlas 4to. and coloured in a superior manner. Price 1l. 15s.*

The probable extent of the Work will be about Eighteen Numbers. A Number will be published every Four Months.

**POMONA BRITANNICA:** or, A COLLECTION of the most esteemed FRUITS at present cultivated in this Country: together with the Blossoms and Leaves of such as are necessary to distinguish the various Sorts from each other. Selected from the Royal Gardens at Hampton Court, and the remainder from the most celebrated Gardens round London. Accurately drawn and coloured from Nature; with full Descriptions of their various Qualities, Seasons, &c. By GEORGE BROOKSHAW. In Atlas folio: the Letter-press printed by BENSLEY in the first style of elegance; with 90 Engravings, engraved and coloured in a novel and beautiful style. Price 45l. in boards.

*This Work was originally published in Thirty Numbers, at 1l. 10s. each. Subscribers who have not yet completed their Copies, may do it by an early application to the Publishers.*

**HORTUS CANTABRIGIENSIS:** or, A CATALOGUE of PLANTS, INDIGENOUS and EXOTIC. By JAMES DONN, Curator, Fellow of the Linnean and Horticultural Societies. The Seventh Edition, in small 8vo. Price 10s. in boards.

**MAWE'S GARDENER'S CALENDAR, AND GENERAL DIRECTORY.** By JOHN ABERCROMBIE. The Twentieth Edition, corrected and greatly enlarged, in 1 thick vol. 12mo. Price 7s. 6d. in boards.

**AN ESSAY ON THE PROBABILITY OF SENSATION IN VEGETABLES.** By J. P. TUPPER, F.L.S. Member of the Royal College of Surgeons. In 8vo. Price 6s. in boards.

**FLORA GRÆCA:** sive Plantarum rariorum Historia, quas in Provinciis aut Insulis Græciæ legit, investigavit, et depingi curavit, JOHANNES SIBTHORP, M.D. S.S. Reg. et Linn. Lond. Socius, Bot. Professor Regius in Academia Oxoniensi. Hic illic etiam insertæ sunt paucula Species quas Vir idem clarissimus, Græciam versus navigans, in Itinere, præsertim apud Italiam et Siciliam, invenerit. Characteres omnium, Descriptiones et Synonyma elaboravit JACOBUS EDVARDUS SMITH, M.D. &c. Societatis Linneanæ Londinensis Præses.

VOLUME the FIRST, containing Two FASCICULI; and the First FASCICULUS of the Second Volume, are now published. This Work is beautifully printed in folio, and each Fasciculus contains 50 Plates engraved and coloured in the most finished manner by SOWERBY, from drawings by FERD. BAUER. Price Twelve Guineas each.

The whole Work will extend to Ten Volumes, or Twenty Fasciculi. From the nature of the Work, and the great expenses attending it, only Fifty Copies are prepared for Sale.

**WHITE, COCHRANE, and Co. Fleet Street.**

**FLORE GRÆCÆ PRODROMUS:** sive Plantarum omnium Enumeratio, quas in Provinciis aut Insulis Græciæ invenit JOHANNES SIBTHORP, M.D. &c. Hic illic etiam insertæ sunt pauculæ Species quas Vir idem clarissimus, Græciam versus navigans, in Itinere, præsertim apud Italiam et Siciliam, invenerit. Characteres omnium, Descriptiones et Synonyma, elaboravit JACOBUS EDVARDUS SMITH, M.D. &c. Societatis Linneanæ Londinensis Præses.

VOLUME the FIRST, containing Two Parts, and the First Part of the Second Volume, handsomely printed in royal 8vo. are published, Price 10s. 6d. each Part in boards.

The Fourth Part (which is in progress) will complete the Work.

**FLORA BRITANNICA,** Auctore JAC. EDV. SMITH, M.D. Societatis Linneanæ Præside, &c. &c.

Volumes the First, Second, and Third, in 8vo. Price 1l. 6s. 6d. in boards.

The Fourth and Fifth Volumes are in preparation.

**AN INTRODUCTION TO PHYSIOLOGICAL AND SYSTEMATIC BOTANY.** By JAMES EDWARD SMITH, M.D. F.R.S. &c. &c. President of the Linnæan Society. The Third Edition, in 8vo. with Engravings. Price 14s. in boards.

*A few Copies with coloured Plates. Price 1l. 8s. in boards.*

The Edinburgh Reviewers, at the conclusion of their review of "Dr. Smith's Introduction to Botany," observe that "Botany is daily becoming a more fashionable female study; and this is an elementary book which may be put with confidence into the hands of women, without any risk of wounding the most delicate mind. We are happy, for the sake of those fair students, to observe, that Dr. Smith promises a translation of his *Flora Britannica*; for this, we doubt not, will, when accomplished by Dr. Smith himself, form the best popular Herbal ever published. In the mean time he very candidly recommends Dr. Withering's Arrangement of British Plants: to which we would take the liberty to add Mr. Galpine's *Compendium of British Botany*, (which is indeed nearly a translation of Dr. Smith's *Compendium Floræ Britannicæ*;) as a most useful and commodious pocket companion in botanical excursions."

**A SYSTEMATIC ARRANGEMENT OF BRITISH PLANTS:** with an easy Introduction to the Study of Botany. Illustrated by Copper-plates. By W. WITHERING, M.D. F.R.S. &c. The Fifth Edition, corrected and considerably enlarged, by WILLIAM WITHERING, Esq. In 4 vols. 8vo. Price 2l. 8s. in boards.

**A SYNOPTICAL COMPEND OF BRITISH BOTANY;** (from the Class Monandria to Polygamia inclusive;) arranged after the Linnæan System; and containing the essential Characters of the Genera, the specific Characters, English Names, Places of Growth, Soil, and Situation, Colour of the Flowers, Times of Flowering, Duration, and References to Figures. By JOHN GALPINE, A.L.S. In foolscap 8vo. with a Frontispiece. Price 10s. 6d. in boards.

**LETTERS ON THE ELEMENTS OF BOTANY.** Addressed to a Lady, by the celebrated J. J. ROUSSEAU. Translated into English,

*Works lately published by WHITE and Co. Fleet Street.*

with Notes, and Twenty-four additional Letters fully explaining the System of Linnæus. By THOMAS MARTYN, B.D. F.R. & L.S.S. Regius Professor of Botany in the University of Cambridge. The Seventh Edition, with Corrections and Improvements, in 8vo. Price 8s. in boards.

THIRTY-EIGHT PLATES, with Explanations, intended to illustrate Linnæus's System of Vegetables, and particularly adapted to the LETTERS on the ELEMENTS of BOTANY. By the SAME AUTHOR. In 8vo. Price 9s. in boards, or coloured, Price 18s. in boards.

THE LANGUAGE OF BOTANY; being A DICTIONARY of the TERMS made use of in that Science, principally by Linnæus; with familiar Explanations, and an Attempt to establish significant English Terms. By the SAME AUTHOR. The Third Edition, corrected and enlarged, in 8vo. Price 7s. in boards.

AN INTRODUCTION TO THE SCIENCE OF BOTANY, chiefly extracted from the Writings of Linnæus. By the late JAMES LEE, Nurseryman and Florist. To which are added several new Tables and Notes, and a Life of the Author. Fourth Edition, corrected and enlarged by JAMES LEE, Son and Successor to the Author. In 8vo. with a Portrait and Plates, Price 14s. in boards; or with the Plates coloured, 21s. in boards.

AN INTRODUCT ON TO THE STUDY OF CRYPTOGRAMOUS PLANTS. By KURT SPRENGEL, M.D. Professor of Botany at Halle, &c. Translated from the German. Neatly printed in 8vo. with 10 4to Plates, Price 9s. in boards; or with the Plates coloured, 18s. in boards.

FERDINANDI BAUER ILLUSTRATIONES FLORÆ NOVÆ HOLLANDIÆ, sive ICONES GENERUM quæ in Prodomo Floræ Novæ Hollandiæ et Insulæ Van Diemen descripsit ROBERTUS BROWN.

Nos. I and II. handsomely-printed in folio, with Five Plates in each, price 7s. per Number.

THEOPHRASTI ERESII DE HISTORIA PLANTARUM Libri X. Græcè, cum Syllabo Generum et Specierum, Glossario et Notis. Curante J. STACKHOUSE, Arm. Soc. Linn. S.

Pars I. continens Libros V. priores. Handsomely printed in crown 8vo. with a Portrait of the Author, Price 12s. in boards.

MR. PENNANT'S BRITISH ZOOLOGY; a new Edition, in 4 vols. 8vo. with 298 Engravings, many of which are new. Price 6l. in boards: or in royal 8vo. 8l. 8s. in boards.

In this Edition the Additions by the Editor constitute an increase of nearly a third to the preceding Edition.

Street.

ining the  
S.S. Re-  
The Se-  
ice 8s. in

to illus-  
ed to the  
IOR. In

r of the  
with fa-  
English  
and en-

r, chiefly  
ES LEE,  
bles and  
and en-  
vo. with  
coloured,

AMOUS  
at Halle,  
h 10 4to  
boards.

NOVE  
e Novæ

in each,

Libri X.  
s. Cu-

crown

4 vols.  
boards:

f nearly